

Development of the Pacific Cod, Trudy Inst. Okeanology, 1957

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720008-1  
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720008-1"  
MUKHACHEVA, V.A.; ZVYAGINA, O.A.

Development of the Pacific cod *Gadus morhua macrocephalus*  
Tilesius. Trudy Inst. okean. 31:145-165 '60. (MIRA 14:4)  
(Gofish)

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ZVYAGINA, O.A.

Materials on the reproduction and development of fishes in the  
Laptev Sea. Report No.1: East Siberian cod (*Arctogadus borisovi*,  
Gadidae). Trudy Inst.okean. 43:320-327 '61. (MIRA 14:6)  
(Laptev Sea—Codfish)

ZVIAGINA, O.A.

Distribution of eggs of the Pacific mackerel *Pneumatophorus japonicus* (Houttuyn) and the mullet *Mugil so-iuy* Basilewsky in Peter the Great Bay. Trudy Inst.okean. 43:328-336 '61. (MIRA 14:6)

(Peter the Great Bay--Fishes--Eggs)  
(Mackerel) (Great mullets)

BOROVIKOV, Ye. M.; ZVIAGINA, O. F.; PUZANOVA, A. A.

Nature of the deformation of frame saw blades in the rolled  
spots. Der. prom. 12 no. 2:16-17 F '63.

(MIRA 16:4)

1. Arkhangel'skiy lesotekhnicheskiy institut.

(Saws)

**Determination of butyraldehyde.** S. V. Alekseev and S. I. Zyvagin. *Sintet. Kausch* (U. S. S. R.) 1936, No. 9, 19-20. A special app., was devised. The aldehydes were oxidized to acids with  $\text{Ag}_2\text{O}$  and the soln. made alk. with 1-2 cc. of  $3\text{N KOH}$ . Then all alcs., hydrocarbons, etc., were distd. off with steam. The residual soln. was made acidic with 10-15 cc. of  $N \text{H}_2\text{SO}_4$  and evapd. to dryness. The condensed acids were oxidized with 3-5 cc. of a mixt. of 1.5 g.  $\text{Pb}(\text{NH}_3)_4(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$  in 1 l. of  $N \text{ H}_2\text{SO}_4$  and 3%  $\text{H}_2\text{O}_2$ . The aldehydes and ketones formed were distd. off in a 3rd flask and the aldehydes were oxidized with the  $\text{Ag}_2\text{O}$  mixt. 10-15 g.  $\text{AgO}$  to 10-15 cc. of  $\text{H}_2\text{O}$ , 0.4 cc. of 1.1  $N \text{ KOH}$  and 0.5 cc. of  $N \text{ MgSO}_4$ . Then the mixt. was distd. off, to the distillate was added 5 cc. of 2  $N \text{ KOH}$ , 20-25 cc. of 0.03  $N \text{ I}$  and  $\text{HCl}$  (1:1) to acidity and it was titrated with  $\text{Na}_2\text{S}_2\text{O}_3$ . The accuracy 7-10%. *Thioglycine references.* A. Pestoff

A. Petrow

## **11.1.1.1. METALLURGICAL LITERATURE CLASSIFICATION**

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ZVYAGINA, N.A.

Linear programming problems with partitioned matrices. Optim.  
plan. no.2:50-61 '64. (MIRA 18:6)

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KUSAKIN, N.D.; SIGAREV, A.M.; ZVIAGINA, Ye.V.; Prinimali uchastiye:  
DOTSENKO, A.M.; KOKOREVA, M.A.; LYUBIMOVA, E.M.; SEMENOVA, L.V.

Investigating the gaseous medium surrounding carbon-graphite blanks  
during their baking in a multiple compartment ring kiln. TSvet. met.  
37 no.10:51-54 O '64. (MIRA 18:7)

ZVYAGINA, Ye.V.

Statistical method for studying dwarf satellites of galaxies.  
Astron. zhur. 43 no. 1:34-39 Ja-F '66 (MIRA 19:2)

1. Gosudarstvennyy astronomicheskiy institut imeni P.K. Shternberga. Submitted June 1, 1965.

8/137/62/000/005/063/150  
A006/A101

AUTHOR: Zvyagintsev, A. F.

TITLE: The relationship between the properties of initial forgings and the macrostructure of press-formed and rolled turbine disks

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 5, 1962, 6, abstract 5D35  
(V sb. "Proiz-vo trub", no. 4, Khar'kov, Metallurgizdat, 1961,  
163-168)

TEXT: The author analyzes the technique of producing blanks for turbine disks on a wheel-rolling mill, analogous to the production of railroad wheels. Simultaneously, information is given on the micro- and macro-structure of blanks intended for the manufacture of turbine disks. Moreover, characteristic deficiencies occurring in blanks produced by the given method, are dealt with.

A. Leont'yev

[Abstracter's note: Complete translation]

Card 1/1

36580  
S/123/62/000/007/013/016  
A004/A101

11Y00

AUTHOR: Zvyagintsev, A. F.

TITLE: Connection between the quality of initial forgings and the macro-structure of stamped and rolled turbine disks

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 7, 1962, 6, abstract TV35 (V sb. "Proiz-vo trub". no. 4, Khar'kov, Metallurgizdat, 1961, 163-168)

TEXT: The author investigated the effect of the initial forging quality on the macrostructure of stamped and rolled turbine disks. The manufacture of the disk includes the forging of the initial cylindrical forging, preliminary upsetting on a 3,000-ton press, upsetting in a calibration ring on a 3,000-ton press, marking with a punch on a 3,000-ton press, die-forging on a 7,000-ton press, expanding on an expanding machine. In the cylindrical initial forgings 420 mm in diameter of alloyed or carbon steel, rods 20 mm in diameter were placed at a distance of 50, 110, 170 mm from the center. After each operation, one of the blanks was cooled and specimens were cut out to investigate, on the basis of the changes of the rods, the nature of metal flow. It was found that the disk hub is formed mainly on account of the forging zone which is limited

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S/123/62/000/007/013/016  
A004/A101

Connection between the quality ...

by radius  $r = 0.25 R_{forg}$  ( $R_{forg}$  - outer radius of forging, in this case 240 mm), and the zone of difficult deformation at the face ends. The disk band is produced from the forging zone which is located as in a tube, limited on one side by  $r = 0.25 R_{forg}$  and on the other side by  $r = 0.5 R_{forg}$ . The peripheral zone beginning at  $0.5 R_{forg}$  is used to form the rim. If the initial forging possesses nonuniform and porous spots and other metallurgical defects located from the center at a distance of  $0.5 R_{forg}$  and approximately in the central part of its height, the defective metal can be introduced into the rim or to the place of junction between the rim and the band. The flaws remain in the part also after expanding since the metal forming the disk periphery is not subjected to considerable all-sided compressive stresses. There are 6 figures.

V. Pavlyuchenko

[Abstracter's note: Complete translation]

Card 2/2

ACCESSION NR: AR4018324

8/0137/64/000/001/D014/D014

SOURCE: RZh. Metallurgiya, Abs. 1D72

AUTHOR: Zvyagintsev, A. F.

TITLE: New method of manufacturing disks using existing equipment of wheel-rolling shops

CITED SOURCE: Sb. Proiz-vo trub. Vy\*p. 9. M., Metallurgizdat, 1963, 141-148

TOPIC TAGS: Turbine manufacture, turbine disk, press processing, high alloy steel, high-alloy steel processing, press equipment conversion

TRANSLATION: Under existing manufacturing methods, large turbine disks are made of blanks, which are disk shaped and produced by smith forging. In machining such disks, a large quantity of metal becomes chips. For this reason, it was necessary to find methods of obtaining disks which would not entail substantial loss of metal. One of these methods is the pressing of blanks on press equipment of wheel-rolling shops. In the production of certain types of disks, the savings in metal reach 38%. The existing method of producing disks in wheel-rolling shops is tied to the fact

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ACCESSION NR: AR4018324

that the equipment (7,000-ton press) operates at the maximum rated pressure. This was an impediment in the production of disks of high-alloys on the press equipment of wheel-rolling shops. A new system of deformation of disk blanks was proposed, which would lower significantly the load of a 7,000-ton press. For this purpose, two unlike dies are suspended on the upper sliding plate of the cross-arm of the press. At first, the one of the dies deforms the peripheral part of the blank, and then the other die deforms the central part of the blank, and Experimental blanks for disks made of EI481 and EI437B alloys were pressed according to the new technological scheme with only one heating, whereas using existing methods, heating on a continuous basis is required. The capacity of the 7,000-ton press was fully satisfactory for the production of blanks, even of such alloys as EI481 and EI437B. The forming of blanks by the new method does not require any basic alterations of existing presses. The new method provided a savings of metal of 30-40%, cuts labor consumption for machining by one-third, and increases equipment productivity to 20 times that of the old method. Schematic diagrams explaining the old and new manufacturing processes are cited; graphs of the change of the average specific pressure of alloys in dependence on the speed of deformation (for shrinkage) is given.

SUB CODE: MM

ENCL: 00

Card 2/2

ZVYAGINTSEV, A.F., kand. tekhn. nauk

Efficient functional diagram for a wheel-rolling mill. Proizv.  
trub no.10:122-126 '63. (MIRA 17:10)

2025 RELEASE UNDER E.O. 14176

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REC'D FBI - AT 5022787  
TM(a) 7/26/69 10:14

SOURCE CODE: 10/276

IJP(c) JD/VN/HW/EM

SEARCHED INDEXED SERIALIZED FILED

AUTOR: Zvyagintsev

[View all posts by \*\*John\*\*](#) [View all posts in \*\*Uncategorized\*\*](#)

**ORG:** none

TITLE: Selection of technology for the production of turbine disk blanks with regard to the stress state at the focus of deformation.

SOURCE: Dnepropetrovsk. Vsesoyuznyy nauchno-issledovatel'skiy i konstruktorsko-tehnologicheskiy institut trubnoy promyslennosti. Fiziko-istvo trub, no. 14, 1964. Sbornik statey po teorii i praktike trubnogo proizvodstva (Collection of articles on the theory and practice of pipe production), 133-137.

TOPIC TAGS: turbine disk, tensile stress, metal rolling, production engineering, metal forging, material deformation

**ABSTRACT:** The authors point out that in the manufacture of turbine-disk blanks a production process causing numerous tensile stresses, especially during the deformation of alloys of low plasticity, favors the development of breaks and cracks, while a process involving compressive stresses favors the sealing of cracks.

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L 12033-66

ACC NR: AT5022787

and improved quality of the blanks. The authors investigated two processes: 1) press forging followed by rolling on a wheel mill, and 2) repeated press forging without subsequent rolling. The latter gave better results. Orig. art. has 7 figures.

SUB CODE: 13,11/ SUBM DATE: none/ ORIG. REF: 002

2/2

PC

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ZVYAGINTSEV, A.F.; IVANOV, Yu.N.; KAZAKOV, V.E.; STETSENKO, A.M.;  
SOLOMOVICH, M.Ya.; KORZH, V.I.; DASHKEVICH, A.A.; Prinimali  
uchastiye: LIPTSEN, S.Kh.; RYZHIKOV, A.P.; STAL'NOKRITSKIY,  
V.N.; LEVENETS, L.Ye.; MOGILA, V.A.; KOVAL', A.A.; VLASOV, V.F.;  
ROSHCHIN, A.G.; RAYKO, V.P.; KORNIYENKO, V.G.; PANTYUSHKIN, N.V.

Investigating the possibility of manufacturing all-rolled  
electric locomotive wheels with existing equipment. Kuz.-shtam.  
proizv. 5 no.11:11-14 N '63.

(MIRA 17:1)

SOURCE CODE: UR/0413/66/000/004/0108/0108

AUTHOR: Barykin, N. A.; Barykina, S. V.; Zvyagintsev, A. M.; Erovskiy, V. L.

38  
37  
B

ORG: none

TITLE: An electropneumatic transducer. Class 42, No. 179100 [announced by Scientific Research Institute of Heat and Power Engineering Equipment (Nauchno-issledovatel'skiy institut teploenergeticheskogo priborostroyeniya)]

SOURCE: Izobrateniya, promyshlennyye obraztsy, tovarnyye znaki, no. 4, 1966, 108

TOPIC TAGS: pneumatic device, electromechanic converter, pneumatic servomechanism

ABSTRACT: This Author's Certificate introduces an electropneumatic transducer which contains an electromagnetic mechanism, lever, ball type indicator and power nozzles and an amplification relay with pressure amplification factor. The accuracy of the transducer is increased by using a cylindrical power nozzle and making the diameter of the indicator nozzle and its ball smaller than that of the power nozzle and ball.

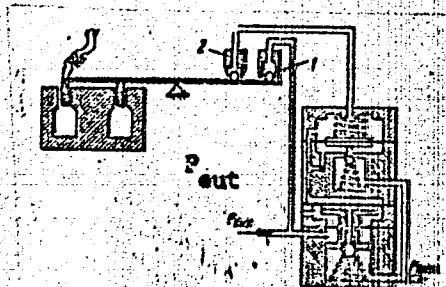
UDC: 681.142-525

Card 1/2

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ACCNUM: AF0005911

CIA-RDP86-00513R002065720008-1  
CIA-RDP86-00513R002065720008-1"



1--power nozzle; 2--indicator nozzle

SUB CODE: 13/ SUBM DATE: 27Dec63/ ORIG REF: 000/ OTH REF: 000/  
  
Card 212 FV

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CIA-RDP86-00513R002065720008-1"

ZVYAGINTSEV, A.M.

Use of structural clamps instead of sunk keys. Geod. i kart no.4:73  
Ap '60. (MIRA 13:8)  
(Triangulation towers)

Intravenous and intraosseous anesthesia with tourniquet in children! Khirurgiia no.3:45-49 Mr '54. (MLRA 7:5)

1. Iz kliniki detskoy khirurgii II Moskovskogo meditsinskogo instituta im. I.V.Stalina (naveduyushchiy kafedroy professor S.D. Ternovskiy) na baze detskoy bol'nitsy im. N.F.Filatova (glavnnyy vrach M.N.Kalugina)  
(ANESTHESIA, LOCAL,  
intraosseous with tourniquet in child)  
(ANESTHESIA, INTRAVENOUS,  
in child., with tourniquet)

ARENDT, A.A., prof.; ARTARYAN, A.A., kand.med.nauk; BAIROV, G.A., prof.; VOLKOV, M.V., prof.; VARSHAVSKAYA, D.Ya., kand. med. nauk; VOROKHOBOV, L.A.; GENERALOV, A.I., kand. med. nauk; DANIYEL'BEK, K.V., kand. med. nauk; DERZHAVIN, V.M., kand.. med. nauk; DOLETSKIY, S.Ya., prof.; YERMOLIN, V.N.; ZATSEPIN, S.T., kand. med. nauk; ZVYAGINTSEV, A.Ye., dots.; ISAKOV, Yu.F., doktor med. nauk; KOZYREV, V.A., kand. med. nauk; KONOVALOV, A.N.; KORNYANSKIY, G.P., prof.; KLIMANSKIY, V.A., kand..med. nauk; KLIMKOVICH, I.G., dots.; KONDRAZHIN, N.I., kand. med. nauk LEVINA, O.Ya., kand. med. nauk; LENYUSHKIN, A.I., kand. med. nauk; LEYZON, N.D., doktor med. nauk; MALININA, L.I., doktor med. nauk; MAREYEVA, T.G., kandidat meditsinskikh nauk; NERSESYANTS, S.I., kand. med. nauk; OVCHINNIKOV, A.A.; OGLEZNEV, K.Ya., kand. med. nauk; ROSTOTSKAYA, V.I., kand, med. nauk; STEPANOV, E.A., kand. med. nauk; EPSHTEYN, P.V.; OSTROVERKHOB, G.Ye., prof., glav. red.; DOMBROVSKAYA, Yu.F., prof., otv. red.

[Multivolume manual on pediatrics] Mnogotomnoe rukovodstvo po pediatrii. Moskva, Meditsina. Vol.9.[Pediatric surgery] Khirurgiya detskogo vozrasta. Red.toma S.IA.Doletskii. 1964. 654 p.

(MIRA 17:9)

1. Deystvitel'nyy chlen AMN SSSR (for Dombrovskaya). 2. Chlen-korrespondent AMN SSSR (for Bairov, Volkov).

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ZVIAGINTSEV, A.Ye.; VOLKOV, M.V.; DOLJETSKIY, S.Ya.

No transl. Khirurgiia 32 no.10:84-85 0 '56  
(BIOGRAPHIES)

(MIRA 12:7)

Ternovskiy, Sergei D.)

ZVIAGINTSEV, A.Ye.; VOLKOV, M.V.; DOLMITSKIY, S.Ya.

Sergei Dmitrievich Ternovskii. Ortop., travm. i protez. 18 no.1:  
78-79 Ja-F '57. (MLRA 10:6)  
(TERNOVSKII, SERGEI DMITRIEVICH, 1896- )

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ZVYAGINTSEV, A.Ye., dotsent; ZHELEZNYAKOVA, F.I.; GADZHIMIRZAYEV, G.A.

Surgical treatment of hypospadias in children. Urologiia 29  
no.3:3-6 My-Je '64. (MIRA 18:10)

1. Klinika detskoj khirurgii (zav.- prof. I.K. Murashov) II  
Moskovskogo meditsinskogo instituta imeni Pirogova.

ZVYAGINTSEV, B.N.

Some statistical characteristics of the second derivative of the  
envelope of a normal random process. Radiotekh. i elektron. 10  
no.4:749-754 Ap '65. (MIRA 18:5)

"APPROVED FOR RELEASE: Thursday, September 26, 2002

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CIA-RDP86-00513R002065720008-1"

ZVYAGINTSEV, D.F., kapitan, voyenny letchik vtorogo klassa; BELKIN,  
G.N., kapitan, voyennyy shturman pervogo klassa

How we carry out aerial reconnaissance. Vest.Vozd.Fl. no.8:33-  
37 Ag '60, (MIRA 13:9)  
(Aeronautics, Military--Observations)

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ZVIAGINTSEV, D.G.; VINOGRADOVA, K.A.; AGRE, N.S.; PERTSOVSKAYA, A.F.

Natural (primary) fluorescence of actinomycetes. Mikrobiologija  
33 no.4:631-638 Jl-Ag '64. (MIRA 18:3)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

ZVYAGINTSEV, D.G.

Study of attaching micro-organisms with the help of fluorescence  
microscopy. Nauch.dokl.vys.sklady; biol.nauki no.3:173-177 '65.

(MIRA 18:8)

1. Rekomendovana kafedroy biologii pochv Moskovskogo gosudarstvennogo  
universiteta.

MANTROVA, Yelizaveta Zakharovna; ZVYAGINTSEV, D.G., red.

[Fertilizers for ornamental plants] Udobrenie dekorativnykh rastenii. Muskva, Izd-vo Mosk. univ., 1965.  
(MIRA 18:8)  
300 p.

ZVYAGINTSEV, D. G., Candidate of Biol Sci (diss) -- "The adsorption of microorganisms by soil particles". Moscow, 1959. 20 pp (Moscow Order of Lenin and Order of Labor Red Banner State U im M. V. Lomonosov, Soil-Biol Faculty), 120 copies (KL, No 20, 1959, 110)

Activity of bacteria adsorbed by soil particles. Mikrobiologija 28  
no.4:527-533 Jl-Ag '59.  
(MIRA 12:12)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.  
(SOIL microbiol.)  
(BACTERIA)

~~ZVIAGINSEV, D.~~

Fluorescence microscopy in the study of soil micro-organisms.  
Nauch.dokl.vys.shkoly; biol.nauki no.2:212-216 '59.

(MIRA 12:6)

1. Rekomendovana kafedroy biologii pochv Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova.

(Fluorescence microscopy)  
(Soil micro-organisms)

ZVIAGINSEV, D.G.

Adsorption of micro-organisms by soil particles. Pochvovedenie  
no.2:19-25 F '62. (MIRA 15:3)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.  
(Soil micro-organisms)

17(2)

SOV/20-123-2-44/50

AUTHORS: Krasil'nikov, N. A., Corresponding Member, Academy of Sciences,  
USSR, Zvyagintsev, D. G.

TITLE: The Application of Fluorescent Microscopy in Incident Light to  
Soil Microflora Investigations (Primeneniye fluorescentsentnoy  
mikroskopii v otrazhennom svete dlya izucheniya pochvennoy  
mikroflory)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 2, pp 366-367  
(USSR)

ABSTRACT: The authors suggest a modification of the method of direct  
microscopic investigation of the soil microflora: instead of  
observing a soil-suspension in permeating blue light an un-  
destroyed section of fresh soil is lighted by the mercury-  
quartz lamps SVDSH 250-2 and -3, and studied in the incident  
light. Thus, it was possible to see the natural normal dis-  
tribution of microbes in the soil as well as their colonies on  
soil particles of any size. The staining method remained un-  
changed (Refs 1,2): fluoro chrome acridine orange. The color  
microphotographs (Figs 1-3) give an idea of the location of the  
microbe in the soil and of its main forms. It was possible to

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The Application of Fluorescent Microscopy in Incident Light to Soil Micro-flora Investigations

find out that the soil microorganisms are placed in their natural state on the surface of soil particles. Only a few of them are floating freely in between. Some particles are densely (Fig 1 a), others, however, only weakly populated (Fig 1 b). They form colonies different in size (4-20 up to 100 and more individual microbes). Single cells, and chains occur relatively often. The bulk of the bacterial cells in the soil is in a state of ball- or coccus-like forms; smaller or bigger rods are rare. Mycelial hyphae of actinomycetes and fungi occur. Organic materials, such as peptone, saccharose, starch, and mannitol caused an impetuous development of microorganisms in humus. A lot of freely floating cells occurred. The authors successfully applied the method suggested for investigating the adsorption by the soil of individual species of bacteria (Fig 3). Some species (*Pseudomonas pyocyanea*) are adsorbed in great quantities, some others in a smaller degree (*Bacterium coli*, *B. mycoides*), and a third group not at all. As fluorescence device OI-17 was used. There are 3 figures and 2 references, 1 of which is Soviet.

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SOV/20-123-2-44/50

The Application of Fluorescent Microscopy in Incident Light to Soil Micro-flora Investigations

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova  
(Moscow State University imeni M. V. Lomonosov)

SUBMITTED: June 27, 1958

Card 3/3

ZVIAGINTSEV, D.G.

Effect of cations on the adsorption of micro-organisms by a glass surface.  
Nauch. dokl. vys. shkoly; biol.nauki no.2:166-170 '62. (MIRA 15:5)

1. Rekomendovana kafedroy biologii pochv Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova.

(CATIONS) (BACTERIA) (ELECTROCHEMISTRY)

KORENEVSKAYA, V. Ye.; KAPLUNOVA, L.S.; ZVIAGINTSEV, D.G.

Agrochemical hydrophysical and microbiological characteristics  
of turf-Podzolic soils with removed humus horizon. Pochvovedenie  
no. 2а43-52 D '65  
(MIRA 19±1)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.  
Submitted July 18, 1962.

ZVIAGINTSEV, D.G.

Study of the microflora of the rhizosphere using reflected light fluorescence microscopy. Mikrobiologiya 31 no.1:111-115 Ja-F '62. (MIRA 15:3)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni Lomonosova.

(RHIZOSPHERE) (MICROBIOLOGY)  
(FLUORESCENCE MICROSCOPE)

ZVYAGINTSEV, D.G.

Use of quenchers for the study of soil microorganisms with the  
help of fluorescence microscopy. Mikrobiologija 32 no.4:732-736  
Jl-Ag '63. (MIRA 17:6)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo  
universiteta imeni M.V. Lomonosova.

ZVYAGINTSEV, D.G.

Studying forms and dimensions of soil micro-organisms by  
means of fluorescence microscopy. Pochvovedenie no.3:101-  
105 Mr '64. (MIRA 17:4)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

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CIA-RDP86-00513R002065720008-1"

ZVIAGINTSEV, D.G.

Effect of antibiotics adsorbed by soil particles on the development  
of free and adsorbed micro-organisms. Nauch. dokl. vys. shkoly;  
biol. nauki no.1:205-208 '64.  
(MIRA 17:4)

1. Rekomendovana kafedroy biologii pochv Moskovskogo gosudarstven-  
nogo universiteta im. M.V.Lomonosova.

KORENEVSKAYA, V.Ye; KAPLUNOVA, L.S.; ZVIYAGINTSEV, D.G.

Studies on the recultivation of lands pitted with quarries.  
Nauch. dokl. vys. shkoly; biol. nauki no.4:192-195 '63

(MIRA 16:11)

1. Rekomendovana kafedrami fiziki i melioratsii pochv, agro-khimii i biologii pochv Moskovskogo gosudarstvennogo universiteta im. Lomonosova.

KRASIL'NIKOV, N.A., prof., otv. red.; DROBKOV, A.A., doktor biol.  
nauk, red.; ZYAGINTSEV, D.G., kand. biol. nauk, red.;  
CHISTYAKOVA, K.S., tekhn. red.

[Microorganisms in agriculture] Mikroorganizmy v sel'skom  
khoziaistve; trudy Mezhvuzovskoi nauchnoi konferentsii. Mo-  
skva, Izd-vo Mosk. univ., 1963. 207 p. (MIRA 16:7)

1. Chlen-korrespondent AN SSSR (for Krasil'nikov).  
(Agricultural microbiology)

ZVIAGINTSEV, D.G.

Adsorption of micro-organisms by a glass surface [with summary in English]. Mikrobiologiya 28 no.1:112-115 Ja-F '59. (MIRA 12:3)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.  
(GLASS,

adsorption of micro-organisms by glass surface  
(Rus))

(MICRO-ORGANISMS,  
same)

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CIA-RDP86-00513R002065720008-1  
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KACHINSKIY, Nikodim Antonovich; ZVYAGINTSEV, G.D., red.; MUKHINA,  
L.V., tekhn. red.

[Soil structure] Struktura pochvy; itogi i perspektivy  
izucheniiia voprosa. Moskva, Izd-vo Mosk. univ., 1963. 98 p.

(MIRA 16:10)

(Soil research)

SATAROVA, N.A.; ZVYAGINTSEV, I.V.

Method for the extermination of the tobacco shrips. Zashch.rast.  
ot vred.i bol. 7 no.5:40-41 My '62. (MIRA 15:11)

1. Krymskaya stantsiya Vsesoyuznogo instituta tabaka i makhorki.  
(Crimea--Tobacco thrips--Extermination)

BOK, N.B.; ZVYAGINTSEV, D.M.; ROTIN, Ye.V.; AZHORIN, A.A., red.

[Overall mechanization of livestock farms in virgin regions] Kompleksnaya mekhanizatsiya zhivotnovodcheskikh ferm v tselinnykh raionakh. Moskva, Kолос, 1964. 127 p.  
(MIRA 18:1)

"APPROVED FOR RELEASE: Thursday, September 26, 2002  
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CIA-RDP86-00513R002065720008-1  
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ZVYAGINTSEV, K.I.

Reorganization of foundries in the Voronezh Economic Council.  
Lit. proizv. no.6:16-22 Je '61. (MIRA 14:6)  
(Voronezh Province--Foundries)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720008-1  
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ZVIAGINTSEV, K.N.; KRAEMLYON, V.F.

Igniting the gas producer, and combustion lighting in the experimental section of the Dnieper Basin. Trudy VNIIN/Podzemnaya no.13:74-78 '65.  
(MIRA 18:8)

1. Laboratoriya tekhnologii podzemnoy gazu i metanov ugley Vsesbyuzhnoogo nauchno-issledovatel'skogo instituta polzunovyye zatifikatsii ugley.

ZYBALOVA, G.P.; ZVYAGINTSEV, K.N.

Effect of certain lignite properties on fire drift movements  
advancing toward the blow. Podzem.gaz.ugl. no.2:46-51 '59.  
(MIRA 12:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektnyy institut  
podzemnoy gazifikatsii ugley.  
(Lignite--Testing) (Coal gasification, Underground)

NUSINOV, G.O., doktor tekhn.nauk; ZYBALOVA, G.P., kand.tekn.nauk;  
Prinimali uchastiye: RETINSKAYA, A.N., inzh.;  
ZVYAGINTSEV, K.N., inzh.; DUSHANOVA, N.N., inzh.;  
KARNASH, E.M., inzh.

First data on the underground coal gasification in the  
experimental gas producer of the Angren "Podzemgaz"  
Gas Producer Plant. Nauch. trudy VNII Podzemgaza no.6:3-10  
'62. (MIRA 15:11)

1. Laboratoriya gazifikatsii burykh ugley Vsesoyuznogo  
nauchno-issledovatel'skogo instituta podzemnoy gazifikatsii  
ugley.

(Angren Basin--Coal gasification, Underground)

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CIA-RDP86-00513R002065720008-1  
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ZVYAGINTSEV, L.I.

Symposium on the physicomechanical properties of rocks in  
the upper part of the earth's crust. Sov. geol. 8 no.3:151-  
156 '65. (MIRA 18:5)

ZVIAGINTSEV, L.I.

Relationship between volcanism and plutonism as revealed by the  
studies in the Rudnny Altai. Biul. MDIP. Otd. geol. 38 no. 2: 151-152  
Mr-Ap '63.

(Altai Mountains—Rocks, Igneous)

(MIRA 16:5)

Age of granitoids of the Zmeinogorsk intrusive complex in the Rudnyj Altai. Izv.vys.ucheb.zav.; geol. i razv. 1 no.5:40-49 My '58.  
(MIRA 12:2)

1. Moskovskiy geologorazvedochnyy institut imeni S. Ordzhonikidze,  
kafedra izverzhennykh i metamorficheskikh porod.  
(Altai Mountains—Granite)

ZVYAGINTSEV, G.

Automation of production and labor organization in a thermal electric power plant. Sots. trud 5 no.1:108-111 Ja '60. (MIRA 13:6)

1. Nachal'nik Chelyabenergo.

(Chelyabinsk Province--Electric power plants)  
(Automation)

ZVYAGINTSEV, I.V.

Centralized freight transportation by truck. Tekst.prom.15 no.8:  
6-7 Ag'55. (MLRA 8:11)  
(Transportation, Automotive--Freight) (Textile industry)

**For efficient organization in the transportation of industrial freight. Tekst.prem.16 no.4:4-5 Ap '56. (MIRA 9:7)  
(Textile fabrics--Transportation)(Raw materials--Transportation)**

1. ZVIAGINSEV, K. P.
2. USSR (600)
4. Swine--Feeding and Feeding Stuffs
7. Work practice of the swine breeding section, Dost. sel'khoz., No. 1, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

ZVYAGINTSEV, K.N.

Studying the effect of the moisture content of Dnieper Basin brown coals on their gasification with the oxygen blowing method. Nauch. trudy VNII Podzemgaza no.7:41-47 '62. (MIRA 15:11)

1. Laboratoriya gazifikatsii kamennoykh ugley Vsesoyuznogo nauchno-issledovatel'skogo instituta podzemnoy gazifikatsii ugley.

(Coal gasification, Underground) (Dnieper Basin--Lignite)

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ZAGREBEL'NAYA, V.S., kand.tekhn.nauk; ZVYAGINTSEV, K.N.

Gasification of Dniepr lignite. Podzem.gaz.ugl. no.4:10-13  
'59. (MIRA 13:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut Podzemgaz.  
(Dnieper Basin--Coal gasification, Underground)

ZVYAGINTSEV, Leonid Ivanovich; SHIPULIN, F.K., doktor geol.-  
miner. nauk, otd. red.

[Paleozoic volcanism in the southeastern part of the Rudnyy  
Altai] Paleozoiskii vulkanizm iugo-vostochnoi chasti Rudnogo  
Altaia. Moskva, Nauka, 1965. 155 p. (MIRA 18:3)

"APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065720008-1

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065720008-1"

KOSHKIN, M. L., prof.; GIL'MAN, B. I.; DUDA, M. N.; DUDCHENKO, I. I.;  
ZIVAGINTSEVA, L. I.; SLASHCHOVA, K. V.

Preventive irradiation of preschool and younger school-age children  
with small (non-erythematic) doses of ultraviolet irradiation.  
Vrach. delo no.6:127-132 Je '62. (MIRA 15:7)

1. Kafedra obshchey gigiyeny (zav. - prof. M. L. Koshkin)  
Khar'kovskogo meditsinskogo instituta.

(ULTRAVIOLET RAYS--THERAPEUTIC USE)  
(SCHOOL HYGIENE)

ZVYAGINTSEV, O.Ye., red.; PTITSYN, B.V., red.; SHUL'MAN, V.M.,  
red.; PESHCHEVITSKIY, B.I., red.; ZAYTSEVA, I.P., red.;  
OVCHINNIKOVA, T.K., tekhn. red.

[Problems in the analysis of noble metals; proceedings of  
the Fifth All-Union Conference on the Analysis of Noble  
Metals] Voprosy analiza blagorodnykh metallov; trudy Vse-  
soiuznogo soveshchaniia po analizu blagorodnykh metallov.  
5th. Novosibirsk, Izd-vo Sibirskogo otd-niia AN SSSR,  
1963. 100 p. (MIRA 17:4)

1. Vsesoyuznoye soveshchaniye po analizu blagorodnykh me-  
tallov. 5th.

ZVYAGINTSEV, V. M.

"On mutual influence of atoms and groups in complexes of nitrosyl ruthenium."

report submitted for 8th Intl Conf on Coordination Chemistry, Vienna, 7-11 Sep  
64.

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720008-1

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720008-1"

ZVYAGINTSEV, O.Ye.; FROLOV, Yu.G.; SUDARIKOV, B.N.

Mechanism of the extraction of tetra- and hexavalent uranium sulfates by tri- and di-n-octylamines. Trudy MKHTI no.47:134-139 '64.  
(MIRA 18:9)

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CIA-RDP86-00513R002065720008-1  
CIA-RDP86-00513R002065720008-1"

ZVYAGINTSEV, O.Ye.; FROLOV, Yu.G.; PUSHKOV, A.A.; DUSHEK, B.

Extraction of inorganic acids by aniline derivatives. Zhur.  
neorg. khim. 10 no.2: 512-517 F '65. (MIRA 18:11)

1. Submitted Sept. 16, 1963.

ACC NR: AP5027210

LIP(c) JD/RM

SOURCE CODE: UR/0078/65/010/011/2571/2573

AUTHOR: Sinitsyn, N. M.; Zvyagintsev, O. Ye.

50  
B

ORG: None

TITLE: The thermal stability of complex compounds of ruthenium containing an NO group

SOURCE: Zhurnal neorganicheskii khimii, v. 10, no. 11, 1965, 2571-2573

TOPIC TAGS: ruthenium compound, thermal stability, nitrogen compound

ABSTRACT: A thermographic study was made of a series of nitroso compounds of ruthenium in a vertical pyrometer with simultaneous automatic recording of the change in weight during heating in air. Temperature measurements were made with a platinum-platinum rhodium thermocouple with a diameter of 0.3 mm. A table shows the formulas of the nitroso ruthenium compounds, the temperature of the start of the endothermic effect, and the temperatures of the initial and maximum exothermic effects. For all the compounds, the dissociation of the RuNO

Card 1/2

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L 8084-66

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groups is accompanied by a strong exothermic effect; in most cases, this is preceded by an endothermic effect, which goes over suddenly to the exothermic effect. The first endothermic effect at 300 C reflects the elimination of two molecules of NH<sub>4</sub>Cl (calculated weight loss 31.10%, found experimentally 32.00%). For all compounds investigated, the final dissociation product was ruthenium dioxide. The final products of thermal dissociation were analyzed for ruthenium content, which varied from 74.8 to 76.7%; no nitrogen or chlorine was found. To confirm the conclusion that the RuNO group exists up to the temperature of the following endothermic effect, the products obtained by heating the salts to a point somewhat lower than this temperature (by 20-30C) were analyzed for nitrogen. Nitrogen was found in all the products. The data indicates that the dissociation temperature of the RuNO group varies over a wide interval, from 220 to 410 C.

Orig. art. has: 1 figure and 1 table

SUB CODE: GC, IC/ SUBM DATE: 07Jan65/ ORIG REF: 003/ OTH REF: 003

Card 2/2 JW

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-0051R002005720008-1a  
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-0051R002005720008-1b

PRINCIPLES AND PROPERTIES INDEX

*✓* 6  
**Ternary compounds of rhodium.** II. O. R. ZVAGINOVICH, R. A. VODOROVA AND S. I. KHORUNZHISKY. *Acta Inst. Nauk. Tbilisi* (Tbilisi); 1977, 71(1029). The salt of Wilm has the formula  $(\text{NH}_3)_4[\text{RhCl}(\text{NH}_3)_3]\text{NO}_3$ . Cond. measurements prove the presence of 2 anions and 3 cations. It crystallizes in the hexagonal system and has the following elements of symmetry:  $C_{3v}(A_2)\text{H}_3\text{ClP}$ . RAU MATZKI.

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The action of hydrogen on the solutions of ruthenium salts at high pressures and  
temperatures. V. N. IPAT'EV AND O. K. ZVEREYENOV. J. Russ. Phys.-Chem. Soc. 61,  
No. 5 (1929).—See C. A. 23, 2631.

V. V. VENKLOVSKY

Zhur. fiz.  
Khim.

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Soviet platinum. Moskva, Gos. nauch.-tekhn. izd-vo, 1931. 55 p.

TN799.P7293

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA/RDP86-00513B002057200001  
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PRICESSES AND PROPERTIES INDEX

*CM*

Colorimetric determination of ruthenium. O. H. ZIMMERMAYER, J. Applied Chem. (U. S. S. R.) 4, 1085 (1931); cf. C. A. 20, 1299. The method is based on the property of Ru to give a dark coloration in HCl solns. because of the formation of  $H_2RuCl_6$  and  $K_2RuCl_6$ , while Os gives colorless compds. V. KALICHREVSKY

Zhum. Prom.  
K. Kalichrevsky

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*24*

Forms of occurrence of platinum-group metals. O. I. Zyuganov. *Zhur. Metal.* 1932, No. 7-8, 140-6. -- The content of the Pt metals in the lithosphere is probably somewhat higher than that given by L. and W. Nodlack (*C. R.* 25, 3280). This correction is suggested by the work of V. A. Obrechey who reported that Pt occurs frequently in Siberian traps. The Pt content is far too low for com. extn., but the occurrence of the Pt-bearing traps is very widespread. *Tyd. Met.*  
B. N. Daniloff

ASA-SEA METALLURGICAL LITERATURE CLASSIFICATION

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"On Oxidation.—L. O. E. Zilgantsev (*Izdatelstvo Platinogo Instituta* (*Annales du Institut de Platine*), 1933, (9), 31-48).—[In Russian.] See abstract from German source, *J. Ind. Metall.*, 1933, 53, 352.—N. A.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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**\*On Osmiridium. II.—X-Ray Analysis.** O. E. Zviajinetz and B. K. Brunovskiy (*Izvestia Platinogo Institut*) (*Annales de l'Institut de Platine*), 1932, (9), 49-53. [In Russian.] Cf. *J. Inst. Metals*, 1933, 58, 352. Osmiridium of various origins and compositions has a close-packed hexagonal lattice, like osmium:  $a = 2.820-2.90 \text{ \AA}$ ,  $c = 4.230-4.40 \text{ \AA}$ ,  $c/a = 1.581-1.617$ . None of the atoms in the osmium lattice can be replaced by up to 51% of iridium and platinum without altering its character. Osmiridium must therefore be regarded as a solid solution of iridium (and platinum) in osmium.—N. A.

СУДА ИНСКУ О Н

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The metallurgy and technology of platinum and the platinum group. Mskva,  
TSvet-metizdat, 1933. 111 p. (50-40631)

TN799.F7Z9

APPROVED FOR RELEASE: Thursday, September 26, 2002 CTA-RDP86-00513R00206572008

A-32

8c

Forced "magnet" which platinum and allied metals occur in nature. Cf. M. KURAKIN. (Ann. Inst. Phys., 1902, No. 10, 14-33).—A discusso-

R. T.

#### **4.00-3.4 METALLURGICAL LITERATURE CLASSIFICATION**

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Ca

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The presence of platinum in sulfur ores. O. E. Zvyagintzov, V. V. Lebedinskii and A. N. Filippov. *Comp. rend. acad. sci. (U. R. S. S.) [N. S.]*, 1933, 165-0. Pt was detected in various ores and final products by spectroscopic means. Up to 50 mg. per kg. was found in ores from Ridder, Alaverdui, Buron and Karabash contg. Cu, Pb, Zn, Fe, SiO<sub>2</sub>, Sc, As, S, Al<sub>2</sub>O<sub>3</sub>, CaO, MgO, Au and Ag. Electrolytic mud, waste from concentrates, etc., contained Pt. A. A. Boetlingk

Dokl. AN SSSR

MATERIALS

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Zviagintsev, O. *Refining of the Precious Metals.* [In Russian.] Pp. 250.  
1934. Moscow, Leningrad, and Sverdlovsk: Gos. nauch.-techn. inst.  
po tschernol i svetlui metallurgii. (Rbl. 3.20.)

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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969	970	971	972
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977	978	979	980
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993	994	995	996
997	998	999	1000

*✓*  
Gaziridium in northern Caucasus and in Kurnatik-Altau. O. N. Zvyagintsev. Sovet. Zolotoprom. 1934, No. 1, 37-0. Analysis gave 31.3-43.0% Os, 33-55% Ir and some Rh, Ru, Pt and Au. The specimens evidently represent variable solid solns. of Ir, etc., in Os, which retains its cryst. structure. S. L. Madorsky

ASM-ELA METALLURGICAL LITERATURE CLASSIFICATION

SEARCHED	SERIALIZED	INDEXED	FILED	SEARCHED		SERIALIZED		INDEXED		FILED	
				1	2	1	2	1	2	1	2
U	S	A	H	1	2	W	V	U	M	N	T

A new mineral containing metals of the platinum group, O. I. Zvyagintsev. *Comp. rend. acad. sci. U.R.S.S.* 6, 171-8 (in German (1934); cf. C. A. 28, 2251). The mineral was obtained in bright silvery grains by treating concentrates from the Sverdlovsk mines with aqua regia to remove Pt. Its hardness is 6-7, sp. gr. 20 and it has no cleavage (unlike iridolumine). X-ray study showed that the structure is face-centered cubic, with  $a_0 = 3.810$  Å. (for pure Ir,  $a_0 = 3.822$ ). Analysis gave Ir 37.5, Os 25.6, Ru 3.6, Au 19.3% and Pbo trace. It is a solid soln. of Au, Os and Ru in Ir. The name *eurozemite* is proposed for the cubic mineral, iridolumine being used for solid solns. having the hexagonal structure. M. F.

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## **APPENDIX A: ANTHROPOLOGICAL LITERATURE CLASSIFICATION**

100-1000 METALLOGRAPHIC TESTS									
TESTS 10001-10010									
TESTS 10011-10020									
100001	100002	100003	100004	100005	100006	100007	100008	100009	100010
100011	100012	100013	100014	100015	100016	100017	100018	100019	100020
100021	100022	100023	100024	100025	100026	100027	100028	100029	100030
100031	100032	100033	100034	100035	100036	100037	100038	100039	100040
100041	100042	100043	100044	100045	100046	100047	100048	100049	100050
100051	100052	100053	100054	100055	100056	100057	100058	100059	100060
100061	100062	100063	100064	100065	100066	100067	100068	100069	100070
100071	100072	100073	100074	100075	100076	100077	100078	100079	100080
100081	100082	100083	100084	100085	100086	100087	100088	100089	100090
100091	100092	100093	100094	100095	100096	100097	100098	100099	1000100

The occurrence of platinum in sulfide ores. I. Zvyagintsev and A. N. Filippov. *Compt. rend.*, Acad. Sci. U. R. S. S., I, No. 2, 3-22 (in German 133-3) (1933); *C. A.* 28, 16335.—The av. Pt content of 17 ore deposits varied from 0.02 to 11 g./ton. The processes now used do not permit economical recovery. It appears to be concd. in ore associated with acid magmas. The platinum content of minerals of sulfide ores. *Ibid.* 130-76 (in German 129-9).—The Pt was found to be largely concd. in the galena. Sphalerite carried some Pt; pyrite and chalcocite, very little or none. Michael Fleischer

Michael Fleischler

AIA-SEA METALLURGICAL LITERATURE CLASSIFICATION

— 1 —

BC

P-2

Mineral content of molybdate minerals. O. P.  
By A. N. Tsvetkov. "Geopt," No. 1,  
April, 1957 (URSS, 1957, 1, 196-197). The  
content of Ti in molybdate minerals. Minerals which  
contain Ti are divided into two groups. Minerals which  
contain Ti in the form of pyrite also contain Ti.  
Two groups of minerals are associated with Ti in  
garnet, mica, etc.

W. B. A.

ABC-1A METALLURICAL LITERATURE CLASSIFICATION

SEARCH CATEGORIES

SEARCHED

INDEXED

SERIALIZED

FILED

SEARCHED

INDEXED

/ *Auroenidium. O. Zvyagintsev, Sotsialist. Rezon-*  
*stratuiya i Nauka 1935, No. 3, 170.*—A new mineral has  
been found composed of Ir 52, Os 25, Au 19 and Ru 3.5%;  
it represents a natural alloy in the form of grains 0.2-3  
mm. in diam. B. V. Shvartberg

ASS-SEA METALLURGICAL LITERATURE CLASSIFICATION

ISSN: 0881-1112

Volume 19, No. 4

October 1981

ISSN: 0881-1112

Volume 19, No. 4

October 1981

CLASSIFICATION

ISSN: 0881-1112

Volume 19, No. 4

October 1981

ISSN: 0881-1112

Volume 19, No. 4

October 1981

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"On Chromitum. O. E. Zviagintsev and B. K. Brunovskiy (*Izvestia Plastnoe Institute (Inn. Inst. Plast.)*, 1935, (18), 5-16).—[In Russian.] X-ray analysis of native chromitum has shown it to possess a definite phase structure, and in some varieties have been found signs of incipient recrystallization; the probable causes of these phenomena are discussed. Laue photograms of a single-crystal specimen of the mineral revealed the presence of constituents with an orientation differing by 10° from that of the crystal itself.—N. A.

ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION

SEARCHED	INDEXED	SERIALIZED	FILED
SEARCHED	INDEXED	SERIALIZED	FILED

M

On Rhodium-Copper Alloys. O. N. Zverinetsky and B. K. Stepanov (Institut Platina i Platinozavodskogo Instituta (Izdat. Izd. Plastika), 1933, (18), 37-60). [In Russian.] The system has been investigated by hardness measurements and micrographic examination of quenched and annealed alloys. The hardness curve for the quenched alloys is characteristic of a continuous series of solid solutions, whereas that for annealed alloys has minima at 30 and 75 atomic-% rhodium. The microstructure of quenched alloys is homogeneous between 0 and 20, and between 90 and 100 atomic-% rhodium as well as at 50 and at 75-80 atomic-% rhodium; other alloys have a duplex structure. Owing to the rapidity with which alloys with 25-30 atomic-% rhodium oxidize in the air, they could not be obtained in a homogeneous state, and therefore a complete equilibrium diagram could not be obtained by thermal analysis. The cooling curve of the 1:1 (atomic) alloy showed an arrest at 1015° C., indicative of the formation of the compound CuRh. X-ray examination showed that quenched alloys with 0-20 atomic-% rhodium have the face-centred cubic lattice of copper,  $\alpha$  increasing regularly with the rhodium content. Similarly, alloys with 90-100 atomic-% rhodium have the rhodium lattice; all other alloys have a structure containing both these phases ( $\alpha$ - $\beta$ ). On annealing, alloys with about 80 atomic-% rhodium are converted into pure  $\beta$ ; and those with about 75 atomic-% rhodium into  $\beta'$ , whereas those with 20 atomic-% rhodium do not become homogeneous. These results and the presence of superstructure lines in photograms of alloys with an atomic ratio of 1:1, 3:1, and 1:3, indicate the existence of the compounds  $RhCu$ ,  $RhCu_2$ , and  $Rh_3Cu$ . The lattices of all the compounds are similar to that of the  $\beta$ -phase, and resemble each other in parameter.—N. A.

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AIR-15-A METALLURGICAL LITERATURE CLASSIFICATION

SUBJECT	1930-35	1936-40	1941-45	1946-50	1951-55	1956-60	1961-65	1966-70	1971-75	1976-80	1981-85	1986-90	1991-95	1996-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R00206S720008-1 100 AND 100 COPIES

## PROCESSES AND ENCAPSULATIONS MODELS

Iridomine from the river B. Loba (north Caucasus).  
 O. R. Zvyaginsev. Akad. V. I. Vernadskomu k Puteshestvii  
*zvukistia* Nauch. Dostizhestvi 2, 807-11(1936); Chem.  
*Zent.* 1936, I, 2819.—In its chem. compn. (Os 43, Pt.  
 1, (Ir + Rh) 33, Ru 13 and Fe 4.6%) and cryst. structure  
 the iridomine found in the north Caucasus is very similar  
 to that found in the Ural and the East Siberia Regns.  
 M. G. Moore

M. C. ALICE

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ANALYSIS OF LITERATURE CITEKATUR

Mikhail Nikolaevich Barabashov. O. E. Zvyagintsev.  
*Ann. sovets. chelio., Inst. chim. giv. (U. S. S. R.) No*  
13, 6-7 (1936). — Necrology with portrait. H. M. L.

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Dokl. AN SSSR

Action of sulphide minerals on solutions of gold and platinum oxides. O. D. AVAGYANOV and R. L. PIRASHVILIA (Ompo) read. Acad. SSSR, U.R.S.S., 1936, 6, 73-74).—The actions of powdered galenite, sphalerite, pyrite, and chalcopyrite on solutions of  $\text{Na}_2\text{PtCl}_6$  and  $\text{H}_2\text{PtCl}_6$  have been investigated. After 1-1.5 months the galenite contained about 20% Pt as  $\text{PtS}_2$ . Reaction with the other minerals is slow.

O. D. S.

ASM-5A METALLURGICAL LITERATURE CLASSIFICATION

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Ore-birds. IV. Compositions from the Kumaoto  
Alated and the northern Cassano. D. H. Ziegelmeyer,  
U.S. metallo-physics, Inst. chem. phys. (U. S. N. R.) No. 18;  
123-7 (1938); cf. C. A. 30, 6479. --Analyses are reported  
for several samples. H. M. Lester

A18-11A METALLURGICAL LITERATURE CLASSIFICATION

1940-1944

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32

Copper nuggets from Allaverda deposits. O. R. Zyrin,  
gintex, and E. L. Pisarhevskaya. *Bull. Acad. sci.*

*U. R. S. S., Classe sci. math. nat. Ser. chim.* 1937, 675-9  
(in German (SO).—A study was made of chem. compn.,  
microstructure and hardness of Sharmutsk copper nuggets  
in the Allaverda District (Armenia). The nuggets are of  
high-purity Cu and contain small amounts. of Fe, Ag and V.  
I. e., metals having an at. radius less than 1.45 Å., but  
contain no metals of at. radius greater than this. In  
hardness the nuggets compare with electrolytic Cu. Six-  
teen references.

Iz. Akad. Nauk SSSR,

Ser. Khim.

S. L. Madorsky

ABSTRACT METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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World platinum industry. O. E. Zvyagintsev, Secr.  
Zolotoprom. 1937, No. 1, 70 p. - Statistical for the period  
1913-36. S. L. Maderovskiy

ASIA-SLA METALLURGICAL LITERATURE CLASSIFICATION

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*6*  
Complex manganese compounds. I. Compounds of manganese salts with pyridine. O. E. Zvyagintsev, D. Yu. Mamulashvili and M. Chikoniya. *Bull. acad. sci. U. R. S. S., Chast sci. mat., Ser. khim.* 1937, No. 6, 1235-9.—Improved procedures for the prepn. of the compds. of Mn with C<sub>5</sub>H<sub>5</sub>N (I), free from the contaminating Mn(OH)<sub>2</sub>, are described. MnCl<sub>2</sub> I (Reitzenstein; Z. anorg. Chem. 18, 200(1888)), green needles, was prep'd by filtering quickly a partial soln. of MnO<sub>2</sub> in concd. HCl, adding to the filtrate I and crystg. in desiccator. MnCl<sub>2</sub> I (Reitzenstein, loc. cit.), pale rose crystals, was formed by treating a mixt. of concd. MnCl<sub>4</sub> and NH<sub>4</sub>C with I. Mn(NO<sub>3</sub>)<sub>2</sub>·2 I (Grosmann, *Ber.* 37, 1255(1904)) was prep'd. from Mn(NO<sub>3</sub>)<sub>2</sub> and NH<sub>4</sub>NO<sub>3</sub> with I as above. All these compds. begin to decompr. at 40-65°. The new compd. MnSO<sub>4</sub>·2H<sub>2</sub>SO<sub>4</sub>, colorless crystals, was obtained by the interaction of MnCl<sub>2</sub>·2 I and slightly acid (H<sub>2</sub>SO<sub>4</sub>) Ag<sub>2</sub>SO<sub>4</sub> soln. It is decompr. in air and more rapidly in H<sub>2</sub>O. Chas. Blanc

USSR

Ser. Khim.

ASA-SEA METALLURGICAL LITERATURE CLASSIFICATION

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"Chimie des composés complexes dans l'URSS durant 20 ans". Zvjazkintzev, O. E. (p. 2581)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii). 1937, Volume 7, No. 20-21.

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*Con*  
*2 hours - Ulrich - Khurana*  
Chemistry of complex compounds in U. S. S. R. during  
the last twenty years. (D. K. Zvezdinetsky, *J. Gen. Chem.*  
(U. S. S. R.) 7, 941-103 (1957). A REVIEW OF complexes  
inorg. compds. Forty-three references. S. L. M.)

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

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*Exhibit 10*

6

**Chemical study of the gold ore of the Baley mine.**  
 O. B. Zvyagintsev, V. A. Volkova and B. L. Pasatchev.  
*Vestn. Sib. Akad. Nauk*, 1957, No. 10, 13-16. *Chemist  
 & Industry*, No. 10, 1957. The Baley ore contains chiefly Au and Ag; the mineral proper contains about 70% Au and 20% Ag. In the rock, however, the proportion of Ag is relatively higher, as a considerable part of the Ag is present uncombined with Au, as pyrargyrite, etc. The compn. and structure of the Au do not vary with depth (down to 120 m.). The Baley Au-bearing veins have a relatively very high k content, greater than that of Kuan-  
 ite. A. Papineau Couture

**1990-91 CHAMPIONSHIP**

AMERICAN MUSEUM OF NATURAL HISTORY

Development of the Pacific Cod, Trudy Inst. Okeanology, 1957

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720008-1  
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720008-1"  
MUKHACHEVA, V.A.; ZVYAGINA, O.A.

Development of the Pacific cod *Gadus morhua macrocephalus*  
Tilesius. Trudy Inst. okean. 31:145-165 '60. (MIRA 14:4)  
(Codfish)

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ZVYAGINA, O.A.

Materials on the reproduction and development of fishes in the  
Laptev Sea. Report No.1: East Siberian cod (*Arctogadus borisovi*,  
Gadidae). Trudy Inst.okean. 43:320-327 '61. (MIRA 14:6)  
(Laptev Sea—Codfish)

ZVIAGINA, O.A.

Distribution of eggs of the Pacific mackerel *Pneumatophorus japonicus* (Houttuyn) and the mullet *Mugil so-iuy* Basilewsky in Peter the Great Bay. Trudy Inst.okean. 43:328-336 '61. (MIRA 14:6)

(Peter the Great Bay--Fishes--Eggs)  
(Mackerel) (Great mullets)

BOROVIKOV, Ye. M.; ZVIAGINA, O. F.; PUZANOVA, A. A.

Nature of the deformation of frame saw blades in the rolled  
spots. Der. prom. 12 no. 2:16-17 F '63.

(MIRA 16:4)

1. Arkhangel'skiy lesotekhnicheskiy institut.

(Saws)

Ca

Determination of butyraldehyde. S. V. Alekseev and S. I. Zyryagina. *Sintet. Kauček* (U. S. S. R.) 1956, No. 9, 19-20. A special app. was devised. The aldehydes were oxidized to acids with Ag<sub>2</sub>O and the soln. made alk. with 1-2 cc. of 2 N KOH. Then all aks., hydrocarbons, etc., were distd. off with steam. The residual soln. was made acid with 10-15 cc. of N H<sub>2</sub>SO<sub>4</sub> and evapd. to dryness. The condensed acids were oxidized with 3-6 cc. of a mixt. of 1.5 g. Fe(NH<sub>4</sub>)<sub>2</sub>(SO<sub>4</sub>)<sub>2</sub>·12H<sub>2</sub>O in 1 l. of N H<sub>2</sub>SO<sub>4</sub> and 3% H<sub>2</sub>O<sub>2</sub>. The aldehydes and ketones formed were distd. off into a 3rd flask and the aldehydes were oxidized with the Ag<sub>2</sub>O mixt. 10-15 g. Ag<sub>2</sub>O in 10-15 cc. of H<sub>2</sub>O, 0.4 cc. of 0.1 N KOH and 0.8 cc. of N MgSO<sub>4</sub>. Then the mixt. was distd. off, to the distillate was added 5 cc. of 2 N KOH, 20-25 cc. of 0.02 N I and HCl (1:1) to acidity and it was titrated with Na<sub>2</sub>SO<sub>3</sub>. The accuracy 7-10% abe. Thirteen references. A. Petroff.

ASA-SLA METALLURGICAL LITERATURE CLASSIFICATION

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ZVYAGINA, N.A.

Linear programming problems with partitioned matrices. Optim.  
plan. no.2:50-61 '64. (MIRA 18:6)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720008-1  
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720008-1"

KUSAKIN, N.D.; SIGAREV, A.M.; ZVIAGINA, Ye.V.; Prinimali uchastiye:  
DOTSENKO, A.M.; KOKOREVA, M.A.; LYUBIMOVA, E.M.; SEMENOVA, L.V.

Investigating the gaseous medium surrounding carbon-graphite blanks  
during their baking in a multiple compartment ring kiln. TSvet. met.  
37 no.10:51-54 O '64. (MIRA 18:7)

ZVYAGINA, Ye.V.

Statistical method for studying dwarf satellites of galaxies.  
Astron. zhur. 43 no. 1:34-39 Ja-F '66 (MIRA 19:2)

1. Gosudarstvennyy astronomicheskiy institut imeni P.K. Shternberga. Submitted June 1, 1965.

8/137/62/000/005/063/150  
A006/A101

AUTHOR: Zvyagintsev, A. F.

TITLE: The relationship between the properties of initial forgings and the macrostructure of press-formed and rolled turbine disks

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 5, 1962, 6, abstract 5D35  
(V sb. "Proiz-vo trub", no. 4, Khar'kov, Metallurgizdat, 1961,  
163-168)

TEXT: The author analyzes the technique of producing blanks for turbine disks on a wheel-rolling mill, analogous to the production of railroad wheels. Simultaneously, information is given on the micro- and macro-structure of blanks intended for the manufacture of turbine disks. Moreover, characteristic deficiencies occurring in blanks produced by the given method, are dealt with.

A. Leont'yev

[Abstracter's note: Complete translation]

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AUTHOR: Zvyagintsev, A. F.

TITLE: Connection between the quality of initial forgings and the macro-structure of stamped and rolled turbine disks

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 7, 1962, 6, abstract TV35 (V sb. "Proiz-vo trub". no. 4, Khar'kov, Metallurgizdat, 1961, 163-168)

TEXT: The author investigated the effect of the initial forging quality on the macrostructure of stamped and rolled turbine disks. The manufacture of the disk includes the forging of the initial cylindrical forging, preliminary upsetting on a 3,000-ton press, upsetting in a calibration ring on a 3,000-ton press, marking with a punch on a 3,000-ton press, die-forging on a 7,000-ton press, expanding on an expanding machine. In the cylindrical initial forgings 420 mm in diameter of alloyed or carbon steel, rods 20 mm in diameter were placed at a distance of 50, 110, 170 mm from the center. After each operation, one of the blanks was cooled and specimens were cut out to investigate, on the basis of the changes of the rods, the nature of metal flow. It was found that the disk hub is formed mainly on account of the forging zone which is limited

Card 1/2

S/123/62/000/007/013/016  
A004/A101

Connection between the quality ...

by radius  $r = 0.25 R_{forg}$  ( $R_{forg}$  - outer radius of forging, in this case 240 mm), and the zone of difficult deformation at the face ends. The disk band is produced from the forging zone which is located as in a tube, limited on one side by  $r = 0.25 R_{forg}$  and on the other side by  $r = 0.5 R_{forg}$ . The peripheral zone beginning at  $0.5 R_{forg}$  is used to form the rim. If the initial forging possesses nonuniform and porous spots and other metallurgical defects located from the center at a distance of  $0.5 R_{forg}$  and approximately in the central part of its height, the defective metal can be introduced into the rim or to the place of junction between the rim and the band. The flaws remain in the part also after expanding since the metal forming the disk periphery is not subjected to considerable all-sided compressive stresses. There are 6 figures.

V. Pavlyuchenko

[Abstracter's note: Complete translation]

Card 2/2

ACCESSION NR: AR4018324

8/0137/64/000/001/D014/D014

SOURCE: RZh. Metallurgiya, Abs. 1D72

AUTHOR: Zvyagintsev, A. F.

TITLE: New method of manufacturing disks using existing equipment of wheel-rolling shops

CITED SOURCE: Sb. Proiz-vo trub. Vy\*p. 9. M., Metallurgizdat, 1963, 141-148

TOPIC TAGS: Turbine manufacture, turbine disk, press processing, high alloy steel, high-alloy steel processing, press equipment conversion

TRANSLATION: Under existing manufacturing methods, large turbine disks are made of blanks, which are disk shaped and produced by smith forging. In machining such disks, a large quantity of metal becomes chips. For this reason, it was necessary to find methods of obtaining disks which would not entail substantial loss of metal. One of these methods is the pressing of blanks on press equipment of wheel-rolling shops. In the production of certain types of disks, the savings in metal reach 38%. The existing method of producing disks in wheel-rolling shops is tied to the fact

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ACCESSION NR: AR4018324

that the equipment (7,000-ton press) operates at the maximum rated pressure. This was an impediment in the production of disks of high-alloys on the press equipment of wheel-rolling shops. A new system of deformation of disk blanks was proposed, which would lower significantly the load of a 7,000-ton press. For this purpose, two unlike dies are suspended on the upper sliding plate of the cross-arm of the press. At first, the one of the dies deforms the peripheral part of the blank, and then the other die deforms the central part of the blank, and Experimental blanks for disks made of EI481 and EI437B alloys were pressed according to the new technological scheme with only one heating, whereas using existing methods, heating on a continuous basis is required. The capacity of the 7,000-ton press was fully satisfactory for the production of blanks, even of such alloys as EI481 and EI437B. The forming of blanks by the new method does not require any basic alterations of existing presses. The new method provided a savings of metal of 30-40%, cuts labor consumption for machining by one-third, and increases equipment productivity to 20 times that of the old method. Schematic diagrams explaining the old and new manufacturing processes are cited; graphs of the change of the average specific pressure of alloys in dependence on the speed of deformation (for shrinkage) is given.

SUB CODE: MM

ENCL: 00

Card 2/2

ZVYAGINTSEV, A.F., kand. tekhn. nauk

Efficient functional diagram for a wheel-rolling mill. Proizv.  
trub no.10:122-126 '63. (MIRA 17:10)

2025 RELEASE UNDER E.O. 14176

E:\SIA-RDP36\001\3R002065720098-1

REC'D FBI - AT 5022787  
TM(a) 7/26/69 10:14

SOURCE CODE: 100-276

IJP(c) JD/VN/HW/EM

Source: COBET UR/3164/6A

AUTOR: Zvyagintsev

[View all posts by \*\*John\*\*](#) [View all posts in \*\*Uncategorized\*\*](#)

**ORG:** none

TITLE: Selection of technology for the production of turbine disk blanks with regard to the stress state at the focus of deformation.

SOURCE: Dnepropetrovsk. Vsesoyuznyy nauchno-issledovatel'skiy i konstruktorsko-tehnologicheskiy institut trubnoy promyslennosti. Fiziko-istvo trub, no. 14, 1964. Sbornik statey po teorii i praktike trubnogo proizvodstva (Collection of articles on the theory and practice of pipe production), 133-137.

TOPIC TAGS: turbine disk, tensile stress, metal rolling, production engineering, metal forging, material deformation

**ABSTRACT:** The authors point out that in the manufacture of turbine-disk blanks a production process causing numerous tensile stresses, especially during the deformation of alloys of low plasticity, favors the development of breaks and cracks, while a process involving compressive stresses favors the sealing of cracks.

1/2

L 12033-66

ACC NR: AT5022787

and improved quality of the blanks. The authors investigated two processes: 1) press forging followed by rolling on a wheel mill, and 2) repeated press forging without subsequent rolling. The latter gave better results. Orig. art. has 7 figures.

SUB CODE: 13,11/ SUBM DATE: none/ ORIG. REF: 002

2/2

PC

"APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065720008-1

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065720008-1"

ZVYAGINTSEV, A.F.; IVANOV, Yu.N.; KAZAKOV, V.E.; STETSENKO, A.M.;  
SOLOMOVICH, M.Ya.; KORZH, V.I.; DASHKEVICH, A.A.; Prinimali  
uchastiye: LIPTSEN, S.Kh.; RYZHIKOV, A.P.; STAL'NOKRITSKIY,  
V.N.; LEVENETS, L.Ye.; MOGILA, V.A.; KOVAL', A.A.; VLASOV, V.F.;  
ROSHCHIN, A.G.; RAYKO, V.P.; KORNIYENKO, V.G.; PANTYUSHKIN, N.V.

Investigating the possibility of manufacturing all-rolled  
electric locomotive wheels with existing equipment. Kuz.-shtam.  
proizv. 5 no.11:11-14 N '63.

(MIRA 17:1)

SOURCE CODE: UR/0413/66/000/004/0108/0108

AUTHOR: Barykin, N. A.; Barykina, S. V.; Zvyagintsev, A. M.; Erovskiy, V. L.

ORG: none

TITLE: An electropneumatic transducer. Class 42, No. 179100 [announced by Scientific Research Institute of Heat and Power Engineering Equipment (Nauchno-issledovatel'skiy institut teploenergeticheskogo priborostroyeniya)]

SOURCE: Izobrateniya, promyshlennyye obraztsy, tovarnyye znaki, no. 4, 1966, 108

TOPIC TAGS: pneumatic device, electromechanic converter, pneumatic servomechanism

ABSTRACT: This Author's Certificate introduces an electropneumatic transducer which contains an electromagnetic mechanism, lever, ball type indicator and power nozzles and an amplification relay with pressure amplification factor. The accuracy of the transducer is increased by using a cylindrical power nozzle and making the diameter of the indicator nozzle and its ball smaller than that of the power nozzle and ball.

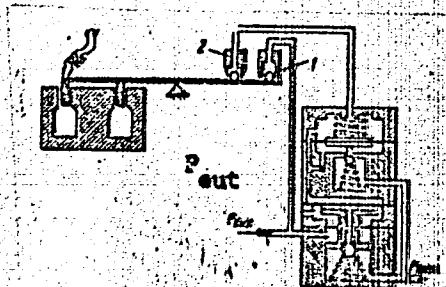
UDC: 681.142-525

Card 1/2

2

APPROVED FOR RELEASE: Thursday, September 26, 2002  
ACCNUM: AF0005911

CIA-RDP86-00513R002065720008-1  
CIA-RDP86-00513R002065720008-1"



1--power nozzle; 2--indicator nozzle

control device

SUB CODE: 13/ SUBM DATE: 27Dec63/

ORIG REF: 000/

OTH REF: 000/

Card 212 FV

"APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065720008-1

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065720008-1"

ZVYAGINTSEV, A.M.

Use of structural clamps instead of sunk keys. Geod. i kart no.4:73  
Ap '60. (MIRA 13:8)  
(Triangulation towers)

Intravenous and intraosseous anesthesia with tourniquet in children! Khirurgiia no.3:45-49 Mr '54. (MLRA 7:5)

1. Iz kliniki detskoy khirurgii II Moskovskogo meditsinskogo instituta im. I.V.Stalina (naveduyushchiy kafedroy professor S.D. Ternovskiy) na baze detskoy bol'nitsy im. N.F.Filatova (glavnnyy vrach M.N.Kalugina)

(ANESTHESIA, LOCAL,

intraosseous with tourniquet in child)

(ANESTHESIA, INTRAVENOUS,

in child., with tourniquet)

ARENDT, A.A., prof.; ARTARYAN, A.A., kand.med.nauk; BAIROV, G.A., prof.; VOLKOV, M.V., prof.; VARSHAVSKAYA, D.Ya., kand. med. nauk; VOROKHOBOV, L.A.; GENERALOV, A.I., kand. med. nauk; DANIYEL'BEK, K.V., kand. med. nauk; DERZHAVIN, V.M., kand.. med. nauk; DOLETSKIY, S.Ya., prof.; YERMOLIN, V.N.; ZATSEPIN, S.T., kand. med. nauk; ZVYAGINTSEV, A.Ye., dots.; ISAKOV, Yu.F., doktor med. nauk; KOZYREV, V.A., kand. med. nauk; KONOVALOV, A.N.; KORNYANSKIY, G.P., prof.; KLIMANSKIY, V.A., kand..med. nauk; KLIMKOVICH, I.G., dots.; KONDRAZHIN, N.I., kand. med. nauk LEVINA, O.Ya., kand. med. nauk; LENYUSHKIN, A.I., kand. med. nauk; LEYZON, N.D., doktor med. nauk; MALININA, L.I., doktor med. nauk; MAREYEVA, T.G., kandidat meditsinskikh nauk; NERSESYANTS, S.I., kand. med. nauk; OVCHINNIKOV, A.A.; OGLEZNEV, K.Ya., kand. med. nauk; ROSTOTSKAYA, V.I., kand, med. nauk; STEPANOV, E.A., kand. med. nauk; EPSHTEYN, P.V.; OSTROVERKHOB, G.Ye., prof., glav. red.; DOMBROVSKAYA, Yu.F., prof., otv. red.

[Multivolume manual on pediatrics] Mnogotomnoe rukovodstvo po pediatrii. Moskva, Meditsina. Vol.9.[Pediatric surgery] Khirurgiya detskogo vozrasta. Red.toma S.IA.Doletskii. 1964. 654 p.

(MIRA 17:9)

1. Deystvitel'nyy chlen AMN SSSR (for Dombrovskaya). 2. Chlen-korrespondent AMN SSSR (for Bairov, Volkov).

"APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065720008-1

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065720008-1"

ZVIAGINTSEV, A.Ye.; VOLKOV, M.V.; DOLJETSKIY, S.Ya.

No transl. Khirurgiia 32 no.10:84-85 0 '56  
(BIOGRAPHIES)

(MIRA 12:7)

Ternovskiy, Sergei D.)

ZVIAGINTSEV, A.Ye.; VOLKOV, M.V.; DOLMITSKIY, S.Ya.

Sergei Dmitrievich Ternovskii. Ortop., travm. i protez. 18 no.1:  
78-79 Ja-F '57. (MLRA 10:6)  
(TERNOVSKII, SERGEI DMITRIEVICH, 1896- )

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720008-1

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720008-1"

ZVYAGINTSEV, A.Ye., dotsent; ZHELEZNYAKOVA, F.I.; GADZHIMIRZAYEV, G.A.

Surgical treatment of hypospadias in children. Urologiia 29  
no. 3:3-6 My-Je '64. (MIRA 18:10)

1. Klinika detskoj khirurgii (zav.- prof. I.K. Murashov) II  
Moskovskogo meditsinskogo instituta imeni Pirogova.

ZVYAGINTSEV, B.N.

Some statistical characteristics of the second derivative of the  
envelope of a normal random process. Radiotekh. i elektron. 10  
no.4:749-754 Ap '65. (MIRA 18:5)

"APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065720008-1

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065720008-1"

ZVYAGINTSEV, D.F., kapitan, voyenny letchik vtorogo klassa; BELKIN,  
G.N., kapitan, voyennyy shturman pervogo klassa

How we carry out aerial reconnaissance. Vest.Vozd.Fl. no.8:33-  
37 Ag '60, (MIRA 13:9)  
(Aeronautics, Military--Observations)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720008-1  
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720008-1"

ZVIAGINTSEV, D.G.; VINOGRADOVA, K.A.; AGRE, N.S.; PERTSOVSKAYA, A.F.

Natural (primary) fluorescence of actinomycetes. Mikrobiologija  
33 no.4:631-638 Jl-Ag '64. (MIRA 18:3)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

ZVYAGINTSEV, D.G.

Study of attaching micro-organisms with the help of fluorescence  
microscopy. Nauch.dokl.vys.sklady; biol.nauki no.3:173-177 '65.

(MIRA 18:8)

1. Rekomendovana kafedroy biologii pochv Moskovskogo gosudarstvennogo  
universiteta.

MANTROVA, Yelizaveta Zakharovna; ZVYAGINTSEV, D.G., red.

[Fertilizers for ornamental plants] Udobrenie dekorativnykh rastenii. Muskva, Izd-vo Mosk. univ., 1965.  
(MIRA 18:8)  
300 p.

ZVYAGINTSEV, D. G., Candidate of Biol Sci (diss) -- "The adsorption of microorganisms by soil particles". Moscow, 1959. 20 pp (Moscow Order of Lenin and Order of Labor Red Banner State U im M. V. Lomonosov, Soil-Biol Faculty), 120 copies (KL, No 20, 1959, 110)

Activity of bacteria adsorbed by soil particles. Mikrobiologija 28  
no.4: 527-533 Jl-Ag '59.  
(MIRA 12:12)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.  
(SOIL microbiol.)  
(BACTERIA)

~~ZVIAGINSEV, D.~~

Fluorescence microscopy in the study of soil micro-organisms.  
Nauch.dokl.vys.shkoly; biol.nauki no.2:212-216 '59.

(MIRA 12:6)

1. Rekomendovana kafedroy biologii pochv Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova.

(Fluorescence microscopy)  
(Soil micro-organisms)

ZVIAGINSEV, D.G.

Adsorption of micro-organisms by soil particles. Pochvovedenie  
no.2:19-25 F '62. (MIRA 15:3)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.  
(Soil micro-organisms)

17(2)

SOV/20-123-2-44/50

AUTHORS: Krasil'nikov, N. A., Corresponding Member, Academy of Sciences,  
USSR, Zvyagintsev, D. G.

TITLE: The Application of Fluorescent Microscopy in Incident Light to  
Soil Microflora Investigations (Primeneniye fluorescentsentnoy  
mikroskopii v otrazhennom svete dlya izucheniya pochvennoy  
mikroflory)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 2, pp 366-367  
(USSR)

ABSTRACT: The authors suggest a modification of the method of direct  
microscopic investigation of the soil microflora: instead of  
observing a soil-suspension in permeating blue light an un-  
destroyed section of fresh soil is lighted by the mercury-  
quartz lamps SVDSH 250-2 and -3, and studied in the incident  
light. Thus, it was possible to see the natural normal dis-  
tribution of microbes in the soil as well as their colonies on  
soil particles of any size. The staining method remained un-  
changed (Refs 1,2): fluoro chrome acridine orange. The color  
microphotographs (Figs 1-3) give an idea of the location of the  
microbe in the soil and of its main forms. It was possible to

Card 1/3

SOV/20-123-2-44/50

The Application of Fluorescent Microscopy in Incident Light to Soil Micro-flora Investigations

find out that the soil microorganisms are placed in their natural state on the surface of soil particles. Only a few of them are floating freely in between. Some particles are densely (Fig 1 a), others, however, only weakly populated (Fig 1 b). They form colonies different in size (4-20 up to 100 and more individual microbes). Single cells, and chains occur relatively often. The bulk of the bacterial cells in the soil is in a state of ball- or coccus-like forms; smaller or bigger rods are rare. Mycelial hyphae of actinomycetes and fungi occur. Organic materials, such as peptone, saccharose, starch, and mannitol caused an impetuous development of microorganisms in humus. A lot of freely floating cells occurred. The authors successfully applied the method suggested for investigating the adsorption by the soil of individual species of bacteria (Fig 3). Some species (*Pseudomonas pyocyanea*) are adsorbed in great quantities, some others in a smaller degree (*Bacterium coli*, *B. mycoides*), and a third group not at all. As fluorescence device OI-17 was used. There are 3 figures and 2 references, 1 of which is Soviet.

Card 2/3

SOV/20-123-2-44/50

The Application of Fluorescent Microscopy in Incident Light to Soil Micro-flora Investigations

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova  
(Moscow State University imeni M. V. Lomonosov)

SUBMITTED: June 27, 1958

Card 3/3

ZVIAGINTSEV, D.G.

Effect of cations on the adsorption of micro-organisms by a glass surface.  
Nauch. dokl. vys. shkoly; biol.nauki no.2:166-170 '62. (MIRA 15:5)

1. Rekomendovana kafedroy biologii pochv Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova.

(CATIONS) (BACTERIA) (ELECTROCHEMISTRY)

KORENEVSKAYA, V. Ye.; KAPLUNOVA, L.S.; ZVIAGINTSEV, D.G.

Agrochemical hydrophysical and microbiological characteristics  
of turf-Podzolic soils with removed humus horizon. Pochvovedenie  
no. 2а43-52 D '65  
(MIRA 19±1)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.  
Submitted July 18, 1962.

ZVIAGINTSEV, D.G.

Study of the microflora of the rhizosphere using reflected light fluorescence microscopy. Mikrobiologiya 31 no.1:111-115 Ja-F '62. (MIRA 15:3)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo universiteta imeni Lomonosova.

(RHIZOSPHERE) (MICROBIOLOGY)  
(FLUORESCENCE MICROSCOPE)

ZVYAGINTSEV, D.G.

Use of quenchers for the study of soil microorganisms with the  
help of fluorescence microscopy. Mikrobiologija 32 no.4:732-736  
Jl-Ag '63. (MIRA 17:6)

1. Biologo-pochvennyy fakul'tet Moskovskogo gosudarstvennogo  
universiteta imeni M.V. Lomonosova.

ZVYAGINTSEV, D.G.

Studying forms and dimensions of soil micro-organisms by  
means of fluorescence microscopy. Pochvovedenie no.3:101-  
105 Mr '64. (MIRA 17:4)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

ZVIAGINTSEV, D.G.

Effect of antibiotics adsorbed by soil particles on the development  
of free and adsorbed micro-organisms. Nauch. dokl. vys. shkoly;  
biol. nauki no.1:205-208 '64. (MIRA 17:4)

1. Rekomendovana kafedroy biologii pochv Moskovskogo gosudarstven-  
nogo universiteta im. M.V.Lomonosova.

KORENEVSKAYA, V.Ye; KAPLUNOVA, L.S.; ZVIYAGINTSEV, D.G.

Studies on the recultivation of lands pitted with quarries.  
Nauch. dokl. vys. shkoly; biol. nauki no.4:192-195 '63

(MIRA 16:11)

1. Rekomendovana kafedrami fiziki i melioratsii pochv, agro-khimii i biologii pochv Moskovskogo gosudarstvennogo universiteta im. Lomonosova.

KRASIL'NIKOV, N.A., prof., otv. red.; DROBKOV, A.A., doktor biol.  
nauk, red.; ZYAGINTSEV, D.G., kand. biol. nauk, red.;  
CHISTYAKOVA, K.S., tekhn. red.

[Microorganisms in agriculture] Mikroorganizmy v sel'skom  
khoziaistve; trudy Mezhvuzovskoi nauchnoi konferentsii. Mo-  
skva, Izd-vo Mosk. univ., 1963. 207 p. (MIRA 16:7)

1. Chlen-korrespondent AN SSSR (for Krasil'nikov).  
(Agricultural microbiology)

ZVIAGINTSEV, D.G.

Adsorption of micro-organisms by a glass surface [with summary in English]. Mikrobiologiya 28 no.1:112-115 Ja-F '59. (MIRA 12:3)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.  
(GLASS,

adsorption of micro-organisms by glass surface  
(Rus))

(MICRO-ORGANISMS,  
same)

"APPROVED FOR RELEASE: Thursday, September 26, 2002  
APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065720008-1  
CIA-RDP86-00513R002065720008-1"

KACHINSKIY, Nikodim Antonovich; ZVYAGINTSEV, G.D., red.; MUKHINA,  
L.V., tekhn. red.

[Soil structure] Struktura pochvy; itogi i perspektivy  
izucheniiia voprosa. Moskva, Izd-vo Mosk. univ., 1963. 98 p.

(MIRA 16:10)

(Soil research)

SATAROVA, N.A.; ZVYAGINTSEV, I.V.

Method for the extermination of the tobacco shrips. Zashch.rast.  
ot vred.i bol. 7 no.5:40-41 My '62. (MIRA 15:11)

1. Krymskaya stantsiya Vsesoyuznogo instituta tabaka i makhorki.  
(Crimea--Tobacco thrips--Extermination)

BOK, N.B.; ZVYAGINTSEV, D.M.; ROTIN, Ya.V.; AZHORIN, A.A., red.

[Overall mechanization of livestock farms in virgin regions] Kompleksnaya mekhanizatsiya zhivotnovodcheskikh ferm v tselinnykh raionakh. Moskva, Kолос, 1964. 127 p.  
(MIRA 18:1)

"APPROVED FOR RELEASE: Thursday, September 26, 2002  
APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065720008-1  
CIA-RDP86-00513R002065720008-1"

ZVYAGINTSEV, K.I.

Reorganization of foundries in the Voronezh Economic Council.  
Lit. proizv. no.6:16-22 Je '61. (MIRA 14:6)  
(Voronezh Province--Foundries)

ZVIAGINTSEV, K.N.; KRAEMLYON, V.F.

Igniting the gas producer, and combustion lighting in the experimental section of the Dnieper Basin. Trudy VNIIN/Podzemnaya no.13:74-78 '65.  
(MIRA 18:8)

1. Laboratoriya tekhnologii podzemnoy gazu i metanov ugley Vsesbyuzhnoogo nauchno-issledovatel'skogo instituta polzunovyye zatifikatsii ugley.

ZYBALOVA, G.P.; ZVYAGINTSEV, K.N.

Effect of certain lignite properties on fire drift movements  
advancing toward the blow. Podzem.gaz.ugl. no.2:46-51 '59.  
(MIRA 12:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektnyy institut  
podzemnoy gazifikatsii ugley.  
(Lignite--Testing) (Coal gasification, Underground)

NUSINOV, G.O., doktor tekhn.nauk; ZYBALOVA, G.P., kand.tekn.nauk;  
Prinimali uchastiye: RETINSKAYA, A.N., inzh.;  
ZVYAGINTSEV, K.N., inzh.; DUSHANOVA, N.N., inzh.;  
KARNASH, E.M., inzh.

First data on the underground coal gasification in the  
experimental gas producer of the Angren "Podzemgaz"  
Gas Producer Plant. Nauch. trudy VNII Podzemgaza no.6:3-10  
'62. (MIRA 15:11)

1. Laboratoriya gazifikatsii burykh ugley Vsesoyuznogo  
nauchno-issledovatel'skogo instituta podzemnoy gazifikatsii  
ugley.

(Angren Basin--Coal gasification, Underground)

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APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065720008-1  
CIA-RDP86-00513R002065720008-1"

ZVYAGINTSEV, L.I.

Symposium on the physicomechanical properties of rocks in  
the upper part of the earth's crust. Sov. geol. 8 no.3:151-  
156 '65. (MIRA 18:5)

ZVIAGINTSEV, L.I.

Relationship between volcanism and plutonism as revealed by the  
studies in the Rudnyy Altai. Biul. MDIP. Otd. geol. 38 no. 2:151-152  
Mr-Ap '63.

(Altai Mountains—Rocks, Igneous)

(MIRA 16:5)

Age of granitoids of the Zmeinogorsk intrusive complex in the Rudnyj Altai. Izv.vys.ucheb.zav.; geol. i razv. 1 no.5:40-49 My '58.  
(MIRA 12:2)

1. Moskovskiy geologorazvedochnyy institut imeni S. Ordzhonikidze,  
kafedra izverzhennykh i metamorficheskikh porod.  
(Altai Mountains—Granite)

ZVYAGINTSEV, G.

Automation of production and labor organization in a thermal electric power plant. Sots. trud 5 no.1;108-111 Ja '60. (MIRA 13:6)

1. Nachal'nik Chelyabenergo.

(Chelyabinsk Province--Electric power plants)  
(Automation)

ZVYAGINTSEV, I.V.

Centralized freight transportation by truck. Tekst.prom.15 no.8:  
6-7 Ag'55. (MLRA 8:11)  
(Transportation, Automotive--Freight) (Textile industry)

**For efficient organization in the transportation of industrial freight. Tekst.prem.16 no.4:4-5 Ap '56. (MIRA 9:7)  
(Textile fabrics--Transportation)(Raw materials--Transportation)**

1. ZVIAGINSEV, K. P.
2. USSR (600)
4. Swine--Feeding and Feeding Stuffs
7. Work practice of the swine breeding section, Dost. sel'khoz., No. 1, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

ZVYAGINTSEV, K.N.

Studying the effect of the moisture content of Dnieper Basin brown coals on their gasification with the oxygen blowing method. Nauch. trudy VNII Podzemgaza no.7:41-47 '62. (MIRA 15:11)

1. Laboratoriya gazifikatsii kamennyykh ugley Vsesoyuznogo nauchno-issledovatel'skogo instituta podzemnoy gazifikatsii ugley.

(Coal gasification, Underground) (Dnieper Basin--Lignite)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720008-1

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ZAGREBEL'NAYA, V.S., kand.tekhn.nauk; ZVYAGINTSEV, K.N.

Gasification of Dniepr lignite. Podzem.gaz.ugl. no.4:10-13  
'59. (MIRA 13:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut Podzemgaz.  
(Dnieper Basin--Coal gasification, Underground)

ZVYAGINTSEV, Leonid Ivanovich; SHIPULIN, F.K., doktor geol.-  
miner. nauk, otd. red.

[Paleozoic volcanism in the southeastern part of the Rudnyy  
Altai] Paleozoiskii vulkanizm iugo-vostochnoi chasti Rudnogo  
Altaia. Moskva, Nauka, 1965. 155 p. (MIRA 18:3)

"APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065720008-1

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065720008-1"

KOSHKIN, M. L., prof.; GIL'MAN, B. I.; DUDA, M. N.; DUDCHENKO, I. I.;  
ZIVAGINTSEVA, L. I.; SLASHCHOVA, K. V.

Preventive irradiation of preschool and younger school-age children  
with small (non-erythematic) doses of ultraviolet irradiation.  
Vrach. delo no.6:127-132 Je '62. (MIRA 15:7)

1. Kafedra obshchey gigiyeny (zav. - prof. M. L. Koshkin)  
Khar'kovskogo meditsinskogo instituta.

(ULTRAVIOLET RAYS--THERAPEUTIC USE)  
(SCHOOL HYGIENE)

ZVYAGINTSEV, O.Ye., red.; PTITSYN, B.V., red.; SHUL'MAN, V.M.,  
red.; PESHCHEVITSKIY, B.I., red.; ZAYTSEVA, I.P., red.;  
OVCHINNIKOVA, T.K., tekhn. red.

[Problems in the analysis of noble metals; proceedings of  
the Fifth All-Union Conference on the Analysis of Noble  
Metals] Voprosy analiza blagorodnykh metallov; trudy Vse-  
soiuznogo soveshchaniia po analizu blagorodnykh metallov.  
5th. Novosibirsk, Izd-vo Sibirskogo otd-niia AN SSSR,  
1963. 100 p. (MIRA 17:4)

1. Vsesoyuznoye soveshchaniye po analizu blagorodnykh me-  
tallov. 5th.

ZVYAGINTSEV, V. M.

"On mutual influence of atoms and groups in complexes of nitrosyl ruthenium."

report submitted for 8th Intl Conf on Coordination Chemistry, Vienna, 7-11 Sep  
64.

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720008-1

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720008-1"

ZVYAGINTSEV, O.Ye.; FROLOV, Yu.G.; SUDARIKOV, B.N.

Mechanism of the extraction of tetra- and hexavalent uranium sulfates by tri- and di-n-octylamines. Trudy MKHTI no.47:134-139 '64.  
(MIRA 18:9)

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CIA-RDP86-00513R002065720008-1  
CIA-RDP86-00513R002065720008-1"

ZVYAGINTSEV, O.Ye.; FROLOV, Yu.G.; PUSHKOV, A.A.; DUSHEK, B.

Extraction of inorganic acids by aniline derivatives. Zhur.  
neorg. khim. 10 no.2: 512-517 F '65. (MIRA 18:11)

1. Submitted Sept. 16, 1963.

ACC NR: AP5027210

LIP(c) JD/RM

SOURCE CODE: UR/0078/65/010/011/2571/2573

AUTHOR: Sinitsyn, N. M.; Zvyagintsev, O. Ye.

50  
B

ORG: None

TITLE: The thermal stability of complex compounds of ruthenium containing an NO group

SOURCE: Zhurnal neorganicheskii khimii, v. 10, no. 11, 1965, 2571-2573

TOPIC TAGS: ruthenium compound, thermal stability, nitrogen compound

ABSTRACT: A thermographic study was made of a series of nitroso compounds of ruthenium in a vertical pyrometer with simultaneous automatic recording of the change in weight during heating in air. Temperature measurements were made with a platinum-platinum rhodium thermocouple with a diameter of 0.3 mm. A table shows the formulas of the nitroso ruthenium compounds, the temperature of the start of the endothermic effect, and the temperatures of the initial and maximum exothermic effects. For all the compounds, the dissociation of the RuNO

Card 1/2

UDC: 546.96:541.49+546.172-31

L 8084-66

ACC NR: AP5027210

groups is accompanied by a strong exothermic effect; in most cases, this is preceded by an endothermic effect, which goes over suddenly to the exothermic effect. The first endothermic effect at 300 C reflects the elimination of two molecules of NH<sub>4</sub>Cl (calculated weight loss 31.10%, found experimentally 32.00%). For all compounds investigated, the final dissociation product was ruthenium dioxide. The final products of thermal dissociation were analyzed for ruthenium content, which varied from 74.8 to 76.7%; no nitrogen or chlorine was found. To confirm the conclusion that the RuNO group exists up to the temperature of the following endothermic effect, the products obtained by heating the salts to a point somewhat lower than this temperature (by 20-30C) were analyzed for nitrogen. Nitrogen was found in all the products. The data indicates that the dissociation temperature of the RuNO group varies over a wide interval, from 220 to 410 C.

Orig. art. has: 1 figure and 1 table

SUB CODE: GC, IC/ SUBM DATE: 07Jan65/ ORIG REF: 003/ OTH REF: 003

Card 2/2 JW

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APPROVED FOR RELEASE: Thursday, September 26, 2002. CIA-RDP86-B051300200520008-1a  
PRINCIPAL AND PROPERTY OF THE CIA

Ternary compounds of thodium, II. O. R. ZVAGUNTSKY, K. A. VOROBIEVA AND S. I. KHOZUNENKOV. *Ann. Inst. Politec. Tbilissi*, No. 7, p. 114 (1929). The salt of Wilms has the formula  $(\text{NH}_4)_2[\text{RhCl}_3(\text{NH}_3)\text{Cl}]\text{NO}_3$ . Cond. measurements prove the presence of 2 cations and 3 cations. It crystallizes in the hexagonal system and has the following elements of symmetry:  $\text{Cl}_2(\text{a})\text{Cl}_1\text{gP}$ . — RAH MAYER.

**13B-16A METALLURGICAL LITERATURE CLASSIFICATION**

SCANDON (LITERATURE)

CIA-1

REFUGEE

INDEX

The action of hydrogen on the solutions of ruthenium salts at high pressures and  
temperatures. V. N. IPAT'EV AND O. K. ZVEREYENOV. J. Russ. Phys.-Chem. Soc. 61,  
No. 5 (1929).—See C. A. 23, 2631.

V. V. VENKLOVSKY

Zhur. fiz.  
Khim.

62.

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

REFUGEE INDEX

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720008-1

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065720008-1"

Soviet platinum. Moskva, Gos. nauch.-tekhn. izd-vo, 1931. 55 p.

TN799.P7293

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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00514B002065720008-1

PROCESSES AND PROCEDURES

Colorimetric determination of ruthenium. O. H. ZYKOVINAYEV. J. Applied Chem. (U. S. S. R.) 4, 1056-64 (1931); cf. C. A. 26, 1207. The method is based on the property of Ru to give a dark coloration in HCl solns. because of the formation of  $H_2RuCl_6$  and  $K_2RuCl_6$ , while Os gives colorless compds. V. KALICHURVAKY

Zhen, Peijie

Kris

**ASB-SEA METALLURGICAL LITERATURE CLASSIFICATION**

This image shows a close-up of a rectangular metal plate, likely an identification card. It features several rows of small circular holes, some of which are punched through. There are also some faint markings and numbers visible, though they are somewhat faded or obscured by the lighting.

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CIA-RDP86-00513R002065700081

REF ID: A65700081

*U*

Forms of occurrence of platinum-group metals. O. I. Zyuganov. *Zhur. Metal.* 1932, No. 7-8, 140-6. -- The content of the Pt metals in the lithosphere is probably somewhat higher than that given by L. and W. Nodlack (*C. R.* 25, 3280). This correction is suggested by the work of V. A. Obuchev who reported that Pt occurs frequently in Siberian traps. The Pt content is far too low for com. extn., but the occurrence of the Pt-bearing traps is very widespread. *Tyd. Met.*  
B. N. Daniloff

ASA-SEA METALLURGICAL LITERATURE CLASSIFICATION

180W 51V:83144

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CIA-RDP88-00516R002065720008p1

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00519R002066720008-1

*W*

Analytical separation of copper from rhodium. N. Zavodovskii. *J. Applied Chem. (U.S.S.R.)*, 217-180(02), ch. C, p. 26, 10.5% Separation from Cu is never complete. Rh should be detd. first if its content is over 50%, but with lower content Cu is ppd. before Rh V. Kurnikovsky

470-11A METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 : CIA-RDP86-00513R002005720008-1"

"On Oxidation.—L. O. E. Zilgantsev (*Izdatelstvo Platinogo Instituta* (*Annales du Institut de Platine*), 1933, (9), 31-48).—[In Russian.] See abstract from German source, *J. Ind. Metall.*, 1933, 53, 352.—N. A.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

CLASSIFICATION FROM LIBRARY CARD

APPROVED FOR RELEASE: Thursday, September 26, 2008

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\*On Osmiridium. II.—X-Ray Analysis. O. E. Zvirintsev and B. K. Brunovskiy (*Izvestia Platinogo Institut*) (*Annales de l'Institut de Platine*), 1932, (9), 49–53. [In Russian.] Cf. *J. Inst. Metals*, 15, 33, 38, 352. Osmiridium of various origins and compositions has a close-packed hexagonal lattice, like osmium:  $a = 2.820-2.90 \text{ \AA}$ ,  $c = 4.233-4.00 \text{ \AA}$ ,  $c/a = 1.581-1.617$ . None of the atoms in the osmium lattice can be replaced by up to 51% of iridium and platinum without altering its character. Osmiridium must therefore be regarded as a solid solution of iridium (and platinum) in osmium.—N. A.

СУДА ИНСКВ О Н

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CIA-RDP86-00513R002065720008-1"

The metallurgy and technology of platinum and the platinum group. Mskva,  
TSvet-metizdat, 1933. 111 p. (50-40631)

TN799.F7Z9

APPROVED FOR RELEASE: Thursday, September 26, 2002 CTA-RDP86-00513R00206572008

A-32

8c

Forced "magnet" which platinum and allied metals occur in nature. Cf. M. KURAKIN. (Ann. Inst. Phys., 1902, No. 10, 14-33).—A discusso-

R. T.

#### **4.00-3.4 METALLURGICAL LITERATURE CLASSIFICATION**

Ca

9

The presence of platinum in sulfur ores. O. E. Zvyagintzov, V. V. Lebedinskii and A. N. Filippov. *Comp. rend. acad. sci. (U. R. S. S.) [N. S.]*, 1933, 165-0. Pt was detected in various ores and final products by spectroscopic means. Up to 50 mg. per kg. was found in ores from Ridder, Alaverdui, Buron and Karabash contg. Cu, Pb, Zn, Fe, SiO<sub>2</sub>, Sc, As, S, Al<sub>2</sub>O<sub>3</sub>, CaO, MgO, Au and Ag. Electrolytic mud, waste from concentrates, etc., contained Pt. A. A. Boetlingk

Dokl. AN SSSR

MATERIALS INDEX

ASA-SLA METALLURGICAL LITERATURE CLASSIFICATION

300M STRIPPER

SEARCHED 1945-1969

SEARCHED 1970-1979

SEARCHED 1980-1989

SEARCHED 1990-1999

SEARCHED 2000-2009

SEARCHED 2010-2019

SEARCHED 2020-2029

SEARCHED 2030-2039

SEARCHED 2040-2049

SEARCHED 2050-2059

SEARCHED 2060-2069

SEARCHED 2070-2079

SEARCHED 2080-2089

SEARCHED 2090-2099

SEARCHED 2100-2109

SEARCHED 2110-2119

SEARCHED 2120-2129

SEARCHED 2130-2139

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SEARCHED 2150-2159

SEARCHED 2160-2169

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SEARCHED 4000-4009

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SEARCHED 4100-4109

SEARCHED 4110-4119

SEARCHED 4120-4129

SEARCHED 4130-4139

SEARCHED 4140-4149

SEARCHED 4150-4159

SEARCHED 4160-4169

SEARCHED 4170-4179

SEARCHED 4180-4189

SEARCHED 4190-4199

SEARCHED 4200-4209

SEARCHED 4210-4219

SEARCHED 4220-4229

SEARCHED 4230-4239

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SEARCHED 4250-4259

SEARCHED 4260-4269

SEARCHED 4270-4279

APPROVED FOR RELEASE: Thursday, September 26, 2002 CTA-RDP86-00515R002665720008-1  
APPROVED FOR RELEASE: Thursday, September 26, 2002 CTA-RDP86-00515R002665720008-1

APPROVED FOR RELEASE: Thursday, September 26, 2002 BY CTA-PDP-PRC-00513R0026637/20008-1

Zviagintsev, O. Refining of the Precious Metals. [In Russian.] Pp. 250.  
1934. Moscow, Leningrad, and Sverdlovsk: Gornanutechtechn. iad.  
po tsvetnoi i svetlyoi metallurgii. (Rbl. 3.20.)

*✓*  
Gaziridium in northern Caucasus and in Kurnatik-Altau. O. N. Zvyagintsev. Sovet. Zolotoprom. 1934, No. 1, 37-0. Analysis gave 31.3-43.0% Os, 33-55% Ir and some Rh, Ru, Pt and Au. The specimens evidently represent variable solid solns. of Ir, etc., in Os, which retains its cryst. structure. S. L. Madorsky

ASM-ELA METALLURGICAL LITERATURE CLASSIFICATION

ECONOMIC SUBJECT	SUBJECT	SUB-SUBJECT	SUB-SUB-SUBJECT	CLASSIFICATION		SUBJ. INDEX	SUB-SUBJ. INDEX	SUB-SUB-SUBJ. INDEX
				1	2			
MATERIALS	MINERALS	NON-METALS	NON-METALS	1	2	3	4	5

A new mineral containing metals of the platinum group, O. I. Zvyagintsev. *Comp. rend. acad. sci. U.R.S.S.* 6, 171-8 (in German (1934); cf. C. A. 28, 2251). The mineral was obtained in bright silvery grains by treating concentrates from the Sverdlovsk mines with aqua regia to remove Pt. Its hardness is 6-7, sp. gr. 20 and it has no cleavage (unlike iridolumine). X-ray study showed that the structure is face-centered cubic, with  $a_0 = 3.810$  Å. (for pure Ir,  $a_0 = 3.822$ ). Analysis gave Ir 51.7%, Os 25.6, Ru 3.6, Pd 19.3% and Po trace. It is a solid soln. of Au, Os and Ru in Ir. The name *eurozemite* is proposed for the cubic mineral, iridolumine being used for solid solns. having the hexagonal structure. M. F.

TEL. AN 555 R

## **APPENDIX A: ANTHROPOLOGICAL LITERATURE CLASSIFICATION**

COMINT REPORTS

OPERATIONAL

INTELLIGENCE

REPORTS

ANALYSTS

WORKS

The occurrence of platinum in sulfide ores. Michael Fleischer  
Zvyagintsev and A. N. Filippov. *Compt. rend. acad. RUS.  
USSR*, v. 5, no. 2, 193-2 (in German 133-5) (1953);  
*C. A.* 48, 10359.—The av. Pt content of 17 ore deposits  
varied from 0.02 to 11 g./ton. The processes now used do  
not permit economical recovery. Pt appears to be found  
in ores associated with acid magmas. The platinum content  
of minerals of sulfide ores. *Ibid.* 130-7 (in German 138-  
9).—The Pt was found to be largely enclosed in the galena.  
Sphalerite carried some Pt; pyrite and chalcopyrite, very  
little or none. Michael Fleischer

A50-SLA METALLURGICAL LITERATURE CLASSIFICATION

STANDARD SUBJECT

STANDARD

SEARCHED	SEARCHED	INDEXED	CLASSIFIED	FILED
W W H H	W W D D	D D D D	M D D D	Z Z M M S S D D H H D D D D

BC

P-2

Mineral content of molybdate minerals. O. P.  
By A. N. Tsvetkov. "Geopt," No. 1,  
April, 1957 (URSS, 1957, 1, 196-197). The  
content of Ti in molybdate minerals. Minerals which  
contain Ti are divided into two groups. Minerals which  
contain Ti in the form of pyrite also contain Ti.  
Two groups of minerals are associated with Ti in  
garnet, mica, etc.

W. B. A.

ABC-1A METALLURICAL LITERATURE CLASSIFICATION

SEARCH CATEGORIES

SEARCHED

INDEXED

SERIALIZED

FILED

SEARCHED

INDEXED

/ *Auroenidium. O. Zvyagintsev, Sotsialist. Rezon-*  
*stratuiya i Nauka 1935, No. 3, 170.*—A new mineral has  
been found composed of Ir 52, Os 25, Au 19 and Ru 3.5%;  
it represents a natural alloy in the form of grains 0.2-3  
mm. in diam. B. V. Shvartberg

ASS-SEA METALLURGICAL LITERATURE CLASSIFICATION

ISSN: 0881-1112

Volume 19, No. 4

October 1981

ISSN: 0881-1112

Volume 19, No. 4

October 1981

CLASSIFICATION

ISSN: 0881-1112

Volume 19, No. 4

October 1981

ISSN: 0881-1112

Volume 19, No. 4

October 1981

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"On Chromitum. O. E. Zviagintsev and B. K. Brunovskiy (*Izvestia Plastnoe Institute (Inn. Inst. Plast.)*, 1935, (18), 5-16).—[In Russian.] X-ray analysis of native chromitum has shown it to possess a definite phase structure, and in some varieties have been found signs of incipient recrystallization; the probable causes of these phenomena are discussed. Laue photograms of a single-crystal specimen of the mineral revealed the presence of constituents with an orientation differing by 10° from that of the crystal itself.—N. A.

ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION

SEARCHED	INDEXED	SERIALIZED	FILED
SEARCHED	INDEXED	SERIALIZED	FILED

M

On Rhodium-Copper Alloys. O. N. Zverinetsky and B. K. Stepanov (Institut Platina i Platinozavodskogo Instituta (Izdat. Izd. Plastika), 1933, (18), 37-60). [In Russian.] The system has been investigated by hardness measurements and micrographic examination of quenched and annealed alloys. The hardness curve for the quenched alloys is characteristic of a continuous series of solid solutions, whereas that for annealed alloys has minima at 30 and 75 atomic-% rhodium. The microstructure of quenched alloys is homogeneous between 0 and 20, and between 90 and 100 atomic-% rhodium as well as at 50 and at 75-80 atomic-% rhodium; other alloys have a duplex structure. Owing to the rapidity with which alloys with 25-30 atomic-% rhodium oxidize in the air, they could not be obtained in a homogeneous state, and therefore a complete equilibrium diagram could not be obtained by thermal analysis. The cooling curve of the 1:1 (atomic) alloy showed an arrest at 1015° C., indicative of the formation of the compound CuRh. X-ray examination showed that quenched alloys with 0-20 atomic-% rhodium have the face-centred cubic lattice of copper,  $\alpha$  increasing regularly with the rhodium content. Similarly, alloys with 90-100 atomic-% rhodium have the rhodium lattice; all other alloys have a structure containing both these phases ( $\alpha$ - $\beta$ ). On annealing, alloys with about 80 atomic-% rhodium are converted into pure  $\beta$ ; and those with about 75 atomic-% rhodium into  $\beta'$ , whereas those with 20 atomic-% rhodium do not become homogeneous. These results and the presence of superstructure lines in photograms of alloys with an atomic ratio of 1:1, 3:1, and 1:3, indicate the existence of the compounds  $RhCu$ ,  $RhCu_3$ , and  $Rh_3Cu$ . The lattices of all the compounds are similar to that of the  $\beta$ -phase, and resemble each other in parameter.—N. A.

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AIR-15-A METALLURGICAL LITERATURE CLASSIFICATION

SUBJECT	1930-35	1936-40	1941-45	1946-50	1951-55	1956-60	1961-65	1966-70	1971-75	1976-80	1981-85	1986-90	1991-95	1996-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40	2041-45	2046-50	2051-55	2056-60	2061-65	2066-70	2071-75	2076-80	2081-85	2086-90	2091-95	2096-2000	2001-05	2006-10	2011-15	2016-20	2021-25	2026-30	2031-35	2036-40

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## PROCESSES AND ENCAPSULATIONS MODELS

Iridomine from the river B. Loba (north Caucasus).  
 O. R. Zvyaginsev. *Abad. V. I. Vernadskomu k Pystides-  
 yatstviyu Nauk. Deyateliosti* 2, 807-11(1938); *Chem.  
 Zentral.* 1938, I, 2819.—In its chem. compn. (On 4.3% Pt  
 (Ir + Rh) 33, Ru 13 and Fe 4.6%) and cryst. structure  
 the iridomine found in the north Caucasus is very similar  
 to that found in the Ural and the East Siberia Region.  
 M. G. Moore

**M. C. ALICE**

CA

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ALA-LLA: METALLURGICAL LITERATURE CLASSIFICATION

ca

Mikhail Nikolaevich Barabashkin. O. E. Zvyagintsev.  
Tab. sorteur platine, Inst. chim. gda. (L. S. S. R.) No.  
13, 6-7 (1938).—Necrology with portrait. H. M. L.

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ASM-SEA METALLURGICAL LITERATURE CLASSIFICATION

EDITION 1983/84

SEARCH MAP ONLY ONE

EDITION NUMBER

BULLETIN OF THE ASSOCIATION

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Dokl. AN SSSR

Action of sulphide minerals on solutions of gold and platinum oxides. O. D. AVAGYANOV and R. L. PIRASHVILIA (Ompo) read. Acad. SSSR, U.R.S.S., 1936, 6, 73-74).—The actions of powdered galenite, sphalerite, pyrite, and chalcopyrite on solutions of  $\text{Na}_2\text{PtCl}_6$  and  $\text{H}_2\text{PtCl}_6$  have been investigated. After 1-1.5 months the galenite contained about 20% Pt as  $\text{PtS}_2$ . Reaction with the other minerals is slow.

O. D. S.

ASM-5A METALLURGICAL LITERATURE CLASSIFICATION

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Ore-birds. IV. Compositions from the Kumaoto  
Alated and the northern Cassano. D. H. Ziegelmeyer,  
U.S. metallo-physics, Inst. chem. phys. (U. S. N. R.) No. 18;  
123-7 (1938); cf. C. A. 30, 6479. --Analyses are reported  
for several samples. H. M. Lester

A18-11A METALLURGICAL LITERATURE CLASSIFICATION

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32

Copper nuggets from Allaverda deposits. O. R. Zyrin,  
gintex, and E. L. Pisarhevskaya. *Bull. Acad. sci.*

*U. R. S. S., Classe sci. math. nat. Ser. chim.* 1937, 675-9  
(in German (SO).—A study was made of chem. compn.,  
microstructure and hardness of Sharmutsk copper nuggets  
in the Allaverda District (Armenia). The nuggets are of  
high-purity Cu and contain small amounts. of Fe, Ag and V.  
I. e., metals having an at. radius less than 1.45 Å., but  
contain no metals of at. radius greater than this. In  
hardness the nuggets compare with electrolytic Cu. Six-  
teen references.

Iz. Akad. Nauk SSSR,

Ser. Khim.

S. L. Madorsky

ABSTRACT METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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World platinum industry. O. E. Zvyagintsev, Secr.  
Zolotoprom. 1937, No. 1, 70 p. - Statistical for the period  
1913-36. S. I. Maderovskiy

ASIA-SLA METALLURGICAL LITERATURE CLASSIFICATION

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*6*  
Complex manganese compounds. I. Compounds of manganese salts with pyridine. O. E. Zvyagintsev, D. Yu. Mamulashvili and M. Chikoniya. *Bull. acad. sci. U. R. S. S., Chast sci. mat., Ser. khim.* 1937, No. 6, 1235-9.—Improved procedures for the prepn. of the compds. of Mn with  $C_6H_5N$  (I), free from the contaminating  $Mn(OH)_2$ , are described.  $MnCl_2 \cdot 2 I$  (Reitzenstein, Z. anorg. Chem. 18, 200 (1888)), green needles, was prep'd by filtering quickly a partial soln. of  $MnO_2$  in concd. HCl, adding to the filtrate I and crystg. in desiccator.  $MnCl_2 \cdot 2 I$  (Reitzenstein, loc. cit.), pale rose crystals, was formed by treating a mixt. of concd.  $MnCl_2$  and  $NH_4Cl$  with I.  $Mn(NO_3)_2 \cdot 2 I$  (Grosmann, Ber. 37, 1255 (1904)) was prep'd. from  $Mn(NO_3)_2$  and  $NH_4NO_3$  with I as above. All these compds. begin to decompr. at 40-65°. The new compd.  $MnSO_4 \cdot 2H_2SO_4$ , colorless crystals, was obtained by the interaction of  $MnCl_2 \cdot 2 I$  and slightly acid ( $H_2SO_4$ )  $Ag_2SO_4$  soln. It is decompr. in air and more rapidly in  $H_2O$ . Chas. Blanc

USSR

Ser. Khim.

ASA-SEA METALLURGICAL LITERATURE CLASSIFICATION

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"Chimie des composés complexes dans l'URSS durant 20 ans". Zvjazkintzev, O. E. (p. 2581)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii). 1937, Volume 7, No. 20-21.

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*Con*  
*Zhur - Ulrich - Khiva*  
Chemistry of complex compounds in U. S. S. R. during  
the last twenty years. (O. K. Zvezdin et al., *J. Gen. Chem. (U. S. S. R.)* 7, 941-1031 (1957). A REVIEW OF complexes  
inorg. compds. Forty-three references. S. L. M.)

ASH-SEA METALLURGICAL LITERATURE CLASSIFICATION

*Zvyagintsev, O. Ye.*

8

Chemical study of the gold ore of the Baley mine.  
O. B. Zvyagintsev, V. A. Volkova and E. L. Psotshev.  
Zhurn. Zhestoprom., 1937, No. 10, 13-16; Chuzov  
Gorod. Nauch.-Tekhn. Zavod., 1937, No. 10, 13-16; Chuzov  
& Industrie 20, 1937. The Baley ore carried chiefly Au  
and Ag; the mineral proper contains about 70% Au and  
20% Ag. In the rock, however, the proportion of Ag is  
relatively higher, as a considerable part of the Ag is  
present uncombined with Au, as pyrargyrite, etc. The  
composition and structure of the Au do not vary with depth  
(down to 120 m.). The Baley Au bearing veins have a  
relatively very high K content, greater than that of gran-  
ite.

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METALLURGICAL LITERATURE CLASSIFICATION

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